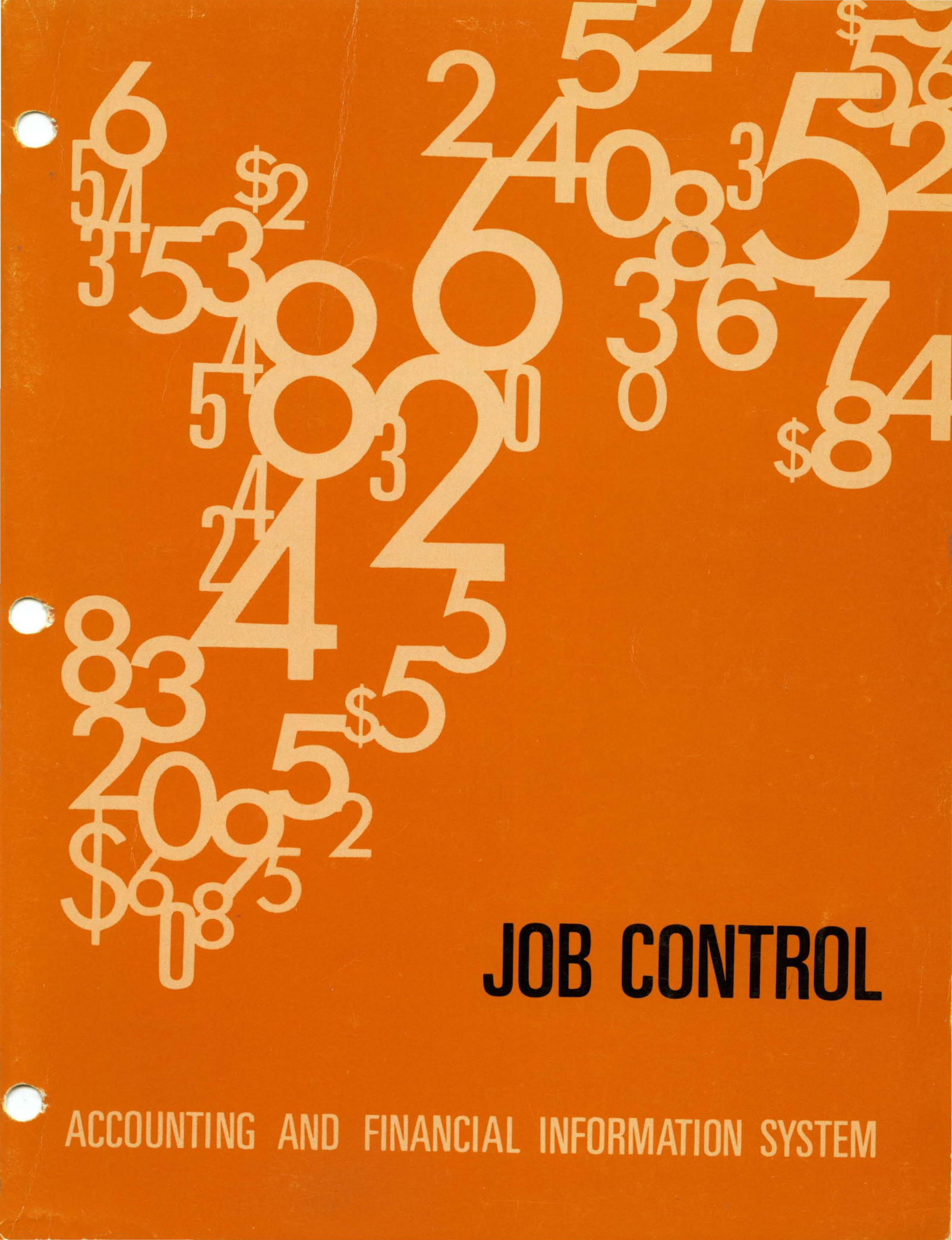


An abstract graphic on an orange background featuring various numbers (0-9) and dollar signs (\$) in a light beige color. The numbers and symbols are scattered across the upper and middle portions of the cover, with some appearing larger and more prominent than others. The overall style is modern and minimalist.

JOB CONTROL

ACCOUNTING AND FINANCIAL INFORMATION SYSTEM

ACCOUNTING AND FINANCIAL INFORMATION SYSTEM

JOB CONTROL



11000 Wolfe Road
Cupertino, California 95014

The Accounting and Financial Information System is proprietary material available only to licensed users. Unauthorized copying or use of Accounting and Financial Information System materials will result in termination of the license and liability for damages.

© *Copyright, 1971, by*
HEWLETT-PACKARD COMPANY
Cupertino, California
Printed in the U.S.A.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system (e.g., in memory, disc or core) or be transmitted by any means, electronic, mechanical, photocopy, recording or otherwise, without prior written permission from the publisher.

Printed in the U.S.A.

PREFACE

The Hewlett-Packard Accounting and Financial Information System is a computer-based accounting system for small business applications.

This manual describes the use of the system programs, including definitions of program commands, operating instructions and examples. The Introduction of this manual discusses the concept of a job and methods used to control jobs. Section I through IV describe program processing for each subsystem: Accounts Receivable and Inventory (Section I), Accounts Payable (Section II), Payroll (Section III) and Financial Statements (Section IV). Section V describes procedures used to create, build and purge any input file. Section VI describes system error diagnostic messages.

This *JOB CONTROL* manual is one of three manuals that describe the Accounting and Financial Information System. The other two manuals are:

ACCOUNTING AND FINANCIAL INFORMATION SYSTEM INTRODUCTION

This booklet summarizes the features of the Accounting and Financial Information System; outlines the functions of files, programs and commands used by the system; and discusses supporting material and facilities available to Hewlett-Packard customers.

ACCOUNTING AND FINANCIAL INFORMATION SYSTEM CONVERSION GUIDE

This reference manual describes procedures used to convert current accounting records into a data base for use by the Accounting and Financial Information System.

Users should read the *INTRODUCTION* before reading either the *CONVERSION GUIDE* or the *JOB CONTROL* manuals. They should also be familiar with the *MOVING-HEAD DISC OPERATING SYSTEM* manual (HP 02116-91779) and the *SOFTWARE OPERATING PROCEDURES*.

CONTENTS

iii	PREFACE
xi	DEFINITIONS OF TERMS
xii	SYMBOLS USED IN THIS MANUAL
xiii	INTRODUCTION
xiii	Job Control
xiv	Starting and Stopping Jobs and Programs
xv	Auxiliary Procedures
xvi	Using the :PROG Directive
	 SECTION I
1-1	PROCESSING ACCOUNTS RECEIVABLE AND INVENTORY
1-1	Prerequisites
1-2	Normal Job Processing
1-3	AUTOB
1-3	Prerequisites
1-4	AUTOB Program Commands
1-7	AUTOB Invoicing Items
1-8	AUTOB Customer Record
1-10	AUTOB Operating Procedures
1-11	AUTOB Error Diagnostics
1-12	STATM
1-13	STATM Operating Procedures
1-13	STATM Error Diagnostics
1-14	AUTST
1-14	Prerequisites
1-15	AUTST Program Commands
1-16	AUTST Operating Procedures
1-17	AUTST Error Diagnostics

CONTENTS

1-18	CUSAC
1-18	Prerequisites
1-19	CUSAC Program Commands
1-21	CUSAC "UPDATE" Parameter Codes
1-22	CUSAC Operating Procedures
1-23	CUSAC Error Diagnostics
1-24	CUSHN
1-24	Prerequisites
1-25	CUSHN Program Commands
1-27	CUSHN "ADD" Parameter Codes
1-29	CUSHN Operating Procedures
1-30	INVIN
1-30	Prerequisites
1-31	INVIN Program Commands
1-34	INVIN "ADD" Parameter Codes
1-36	INVIN Operating Procedures
1-36	INVIN Error Diagnostics
1-38	SAMPLE REPORTS: ACCOUNTS RECEIVABLE AND INVENTORY

SECTION II

2-1	PROCESSING ACCOUNTS PAYABLE
2-1	Prerequisites
2-2	Normal Job Processing
2-3	PAYHN
2-3	Prerequisites
2-4	PAYHN Program Commands
2-6	PAYHN "UPDATE" Parameter Codes
2-8	PAYHN Operating Procedures
2-11	PAYHN Error Diagnostics
2-12	PAYIN
2-12	Prerequisites
2-13	PAYIN Command Codes
2-15	PAYIN Operating Procedures
2-16	PAYIN Error Diagnostics

CONTENTS

2-17	VENHN
2-17	Prerequisites
2-18	VENHN Program Commands
2-20	VENHN "ADD" Parameter Codes
2-21	VENHN Operating Procedures
2-21	VENHN Error Diagnostics
2-22	SAMPLE REPORTS: ACCOUNTS PAYABLE

SECTION III

3-1	PROCESSING PAYROLL
3-1	Prerequisites
3-2	Normal Job Processing
3-3	PAYRL
3-3	Prerequisites
3-4	PAYRL Program Commands
3-5	PAYRL Command Sequences
3-6	PAYRL "SETUP" Parameters
3-7	PAYRL "SINGLE" Parameters
3-9	PAYRL Operating Procedures
3-11	PAYRL Error Diagnostics
3-12	REPRT
3-12	Prerequisites
3-13	REPRT Program Commands
3-15	REPRT Operating Procedures
3-17	REPRT Error Diagnostics
3-18	EMPHN
3-18	Prerequisites
3-19	EMPHN Program Commands
3-21	EMPHN "ADD" Parameter Codes
3-25	EMPHN Operating Procedures
3-25	EMPHN Error Diagnostics
3-26	SAMPLE REPORTS: PAYROLL

CONTENTS

SECTION IV

- 4-1 PROCESSING FINANCIAL STATEMENTS
 - 4-1 Prerequisites
 - 4-2 Normal Job Processing
 - 4-3 LEDGR
 - 4-4 LEDGR Operating Procedures
 - 4-7 LEDGR Error Diagnostics
 - 4-8 DISBR
 - 4-9 DISBR Program Commands
 - 4-11 Journal Entries
 - 4-12 DISBR Operating Procedures
 - 4-15 DISBR Error Diagnostics
 - 4-16 BALAN
 - 4-17 BALAN Operating Procedures
 - 4-18 BALAN Error Diagnostics
 - 4-19 PANDD
 - 4-20 PANDD Operating Procedures
 - 4-21 CHEKH
 - 4-22 CHEKH Operating Procedures
 - 4-23 LEDHN
 - 4-23 Prerequisites
 - 4-24 LEDHN Program Commands
 - 4-26 LEDHN "ADD" Parameter Codes
 - 4-27 LEDHN Operating Procedures
 - 4-28 LEDHN Error Diagnostics
 - 4-29 SAMPLE REPORTS: FINANCIAL STATEMENTS

SECTION V

- 5-1 INPUT FILES
 - 5-2 Creating, Building and Purging an Input File

CONTENTS

SECTION VI

- 6-1 ERROR DIAGNOSTICS
 - 6-1 Disc Processing Errors
 - 6-1 Input Format Errors
 - 6-1 System Program Errors
 - 6-2 Disc Processing Diagnostic Messages
 - 6-3 EFMP Error Codes
 - 6-5 Input Format Errors

APPENDIX A

- A-1 PRINTING RECORDS FROM FILES

APPENDIX B

- B-1 MAKING COPIES OF FILES

APPENDIX C

- C-1 CHANGING SIZES OF FILES

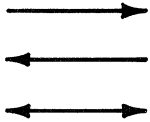
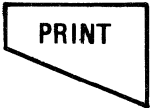
APPENDIX D

- D-1 SUMMARY OF PROGRAM ERROR DIAGNOSTICS

DEFINITIONS OF TERMS

<u>Term</u>	<u>Definition</u>
TYPE	Refers to interaction between the system and the operator at the system teleprinter. The system types messages, requests and error diagnostics; the operator types directives and responses to system messages.
PRINT	Refers to information printed on the system output device by the system, including reports, summaries and job data. The system output device is usually a line printer, but could be another device, depending upon parameters typed by the operator.
CREATE	Refers to the process of naming and reserving disc file areas for system interim and master files. Files are created by the SETP1 and SETP2 programs.
BUILD	Refers to the process of filling created files with data. Files are built by the LEDHN, VENHN, INVIN, EMPHN and CUSHN programs.
DIGIT	Refers to any numeric value. A field of digits is a numeric field and cannot contain characters.
CHARACTER	Refers to any ASCII character field. A field of characters may contain digits. All character fields must be bounded by the ASCII quote mark character (") which cannot be used within the field.
STANDARD	Refers to a default value. When a parameter or value is omitted, a standard value is inserted by the system in its place.
Ø and 0	Ø is the number zero; 0 the character 0.

SYMBOLS USED IN THIS MANUAL

<u>Samples</u>	<u>Meaning</u>
	A MASTER, AN INTERIM OR AN INPUT DISC FILE
	If the file is named, the symbol represents that file only. If the term filex is used the symbol represents one of several possible files, which are listed below the chart.
	A SYSTEM PROGRAM: OR A PROGRAM USED BY THE SYSTEM
	THE DIRECTION OF INFORMATION FLOW If from a file to a program, the program takes information from that file. If from a program to a file, the program puts information on that file. If both to and from a file, the program takes information from and puts information on that file.
	ANY PRINTED OUTPUT FROM A PROGRAM Represents any printed matter generated by the program, either automatically or from the entry of program commands.

INTRODUCTION

The Hewlett-Packard Accounting and Financial Information System is a computer-based accounting system for small business applications. The system is a set of computer programs that process accounting information through a Hewlett-Packard computer operating under the control of the Moving-Head Disc Operating System (DOS-M), one of Hewlett-Packard's standard operating systems.

A program is the basic processing unit of the system. Each system program has specific functions, processes certain system files and produces unique output for the application. A job is the basic processing unit of DOS-M. Programs and auxiliary procedures are grouped into logical sequences and executed as a job, or as several jobs, by DOS-M.

System programs are grouped into subsystems, each of which handles one phase of a complete accounting application. All subsystems, and therefore all programs, share a common disc file data base of accounting information. This data base is created and maintained by the system programs.

JOB CONTROL

When converting his current accounting application to the Accounting and Financial Information System, the customer must determine a logical sequence for executing all the programs in the system. Hewlett-Packard support personnel can assist the customer when he is determining the most effective use of his application.

Since all programs add information to and take information from the data base, programs must be executed in a sequence that satisfies these two requirements:

1. Programs must be executed so that the results are in accord with standard accounting practices and procedures, as adapted to the requirements of the particular application.
2. Programs must be executed in accordance with the processing rules of the DOS-M operating system. Read the *MOVING-HEAD DISC OPERATING SYSTEM* and *SOFTWARE OPERATING PROCEDURES* manuals for this information.

The first four sections of this manual describe instructions for executing programs in each of the subsystems. At the beginning of each of these sections is a summary of the program functions, prerequisites to using the subsystem and a list of normal job processing instructions. Use this information to set up and control jobs. The following information summarizes two other facets of job control: starting and stopping jobs and programs, and using auxiliary procedures.

Starting and Stopping Jobs and Programs

Jobs are started by the DOS-M :JOB directive, and are terminated when one of the following events occur:

1. Another :JOB directive is entered.
2. An :EJOB directive is entered.
3. A processing error occurs that results in a job termination.
When this occurs, the following message is typed on the system teleprinter:

JOB ABORTED!

Programs within a job are started by the DOS-M :PROG directive, and are terminated when one of the following events occur:

1. The program successfully completes processing. When this occurs, the following message is typed on the system teleprinter:

NAME : STOP 0000

where name is the name of the program.

2. An :OFF directive is entered. No message is typed, and the job returns to keyboard mode if it was in batch mode.

NOTE: The :OFF directive should be used only where indicated in the program procedures. If :OFF is used at any other times, incomplete data entry or erroneous processing may occur.

3. A processing error occurs that results in a program termination. An error message is typed, followed by the message shown in item 1 above.

AUXILIARY PROCEDURES

The following auxiliary procedures should be defined for each job:

1. Input files: when to build, edit, use and purge them.
2. File copying: when to copy master or interim files for system backup.
3. Listing files: when to get file listings not provided by the system, if special procedures are required for the accounting application.
4. Forms control: when each type of form is to be used.
5. Special instructions to the operator: when normal procedures are altered.

USING THE :PROG DIRECTIVE

The DOS-M program directive (:PROG) is used to start every program in the Accounting and Financial Information System. The :PROG directive has the following format:

:PROG, name [,output][,input][,display]

name = The name of the program (must be specified). Commas are used to separate any subsequent parameters.

output = The logical unit number of the list output device used by the program (usually the line printer). If this parameter is omitted, the system assigns logical unit 6 as the output device. If this parameter is omitted, but subsequent parameters are used, the comma must be entered.

input = The logical unit number of the input device used by the program, (usually the system disc). If this parameter is omitted, the system assigns logical unit 2 as the input device. If this parameter is omitted, but a subsequent parameter is used, the comma must be entered.

display = A special display before delete function used by the following system programs: EMPHN, LEDHN, VENHN, CUSHN and INVIN.

When this parameter is omitted or equal to zero, any item to be deleted through a "DELETE" command is printed, followed by a message typed on the system teleprinter to which the operator must respond before the item can be deleted.

When this parameter is entered as not equal to zero, the display request is not used, and any "DELETE" request for that program execution is processed automatically.

Examples

:PROG, LEDHN,7,1,1
:PROG, LEDHN
:PROG, LEDHN,,1

:PROG, LEDHN,,1,0
:PROG, LEDHN,7,,1
:PROG, LEDHN,,1

SECTION I

PROCESSING ACCOUNTS RECEIVABLE AND INVENTORY

This section contains instructions for using the following programs:

AUTOB, which can print itemized invoices, record back orders, maintain invoice and inventory records and print summaries of invoice processing.

STATM, which can print current-period statements, maintain ledger accounts receivable records and aged balanced information for current-period invoices and update customer records.

AUTST, which can print statements for customers with a non-current balance due, maintain ledger accounts receivable records and aged balance information for non-current invoices and update customer records.

CUSAC, which can enter customer payments to ledger and check records, print overdue payments and aged balances outstanding and print accounts receivable summaries and mailing lists.

CUSHN, which can edit and print records from the master customer file.

INVIN, which can edit and print records from the master inventory file and print back-ordered invoices and inventory reports.

PREREQUISITES

Before Accounts Receivable and Inventory can be processed, the following processes must have occurred. See the *CONVERSION GUIDE* for instructions.

The MASTE file must have been created and built by the SETP1 program to include Accounts Receivable and Inventory parameters.

The MASIN, MASCU, CUSTR, TEMPL, CHECK, TEMIN and BAKIN files must have been created by the SETP2 program.

The MASIN and MASCU files must have been built by the INVIN and CUSHN programs to include all year-to-date inventory and customer records.

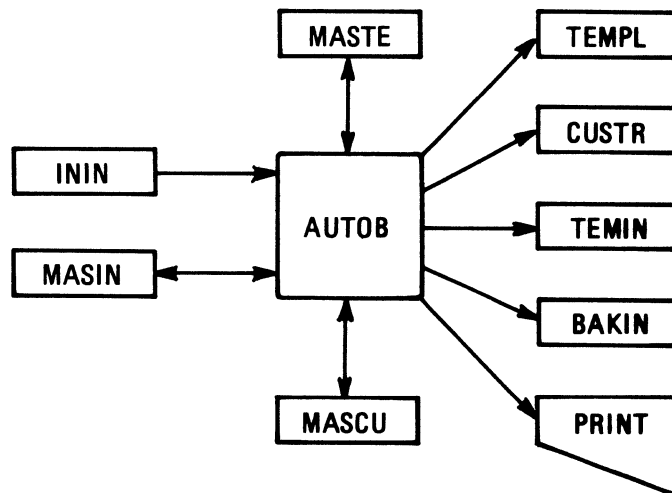
NORMAL JOB PROCESSING

Normal job processing for Accounts Receivable and Inventory would include:

1. Building, editing and storing any required input files separately for the job(s) in which they are executed (unless these files are entered through the system teleprinter).
2. Making any required changes to MASIN or MASCU before executing any job that processes inventory or customer records.
3. Executing AUTOB, STATM and AUTST in chronological order.
4. Purging any input file after it has been used.

AUTOB

The AUTOB program processes an input file (ININ) of customer invoicing data and AUTOB commands to produce itemized invoices; updates the master customer file (MASCU); records balancing entries in file TEMPL; records items sold in file TEMIN; records invoices in file CUSTR; records any back-ordered items in file BAKIN; and updates quantity on hand and date of last activity for items in the master inventory file (MASIN).



PREREQUISITES

An input file (ININ) of AUTOB program commands and invoicing data must have been created and set up for processing unless data and commands are to be entered directly from the system teleprinter. See the following AUTOB program commands and Section V for instructions. Note that if an input file exists from a previous AUTOB run, it must be purged before the new invoicing data and AUTOB program commands can be entered into the input file.

AUTOB PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Example</u>
"CODE1"	INVOICES MASCU CUSTOMER Enter the command and the customer code, followed by the required parameters from the AUTOB INVOICING ITEMS table. The tax percent is obtained from parameter 68 of the MASTE file.	"CODE1","123456" (followed by parameter list)
"CODE1T"	INVOICES MASCU CUSTOMER: VARIABLE TAX Enter the command, the customer code and the tax %, followed by the required parameters from the AUTOB INVOICING ITEMS table. This command is used if the tax rate is not standard.	"CODE1T","123456",4.8%. (followed by para- meter list)
"CODE2"	INVOICES A NEW CUSTOMER This command adds a new customer record to MASCU in addition to preparing an invoice for the item. Enter the command followed by the required parameters from the AUTOB CUSTOMER RECORD table, and the required parameters from the AUTOB INVOICING ITEMS table. This command is used if the tax rate is standard.	"CODE2" 1,"123456" 2,"ALPHA, INC." : 11,"B+" 200,20,"A25"

<u>Command</u>	<u>Function</u>	<u>Example</u>
"CODE2T"	INVOICES A NEW CUSTOMER: VARIABLE TAX This command adds a new customer record to MASCU in addition to preparing an invoice for the item. Enter the command followed by the required parameters from the AUTOB CUSTOMER RECORD table, and the required parameters from the AUTOB INVOICING ITEMS table. This command is used if the tax rate is not standard.	"CODE2T","4.8%" 1,"223456" ⋮ 11,"A-" 100,10,"20000B"
"CODE3"	INVOICES A ONE-TIME CUSTOMER This command prepares an invoice for a one-time customer whose record is not to be added to MASCU. Enter the command, the required information from the AUTOB CUSTOMER RECORD table, followed by the required information from the AUTOB INVOICING ITEMS table. This command is used if the tax rate is standard.	"CODE3" 1,"1001" 2,"CASH" 200,4,"TAPES"
"CODE3T"	INVOICES A ONE-TIME CUSTOMER: VARIABLE TAX This command prepares an invoice for a one-time customer whose record is not to be added to MASCU. Enter the command, the tax rate, the required information from the AUTOB CUSTOMER RECORD table and the required information from the AUTOB INVOICING ITEMS table. This command is used if the tax rate is not standard.	"CODE3T","5%" 1,"1001" 2,"CASH" 100,4,"TAPES"

<u>Command</u>	<u>Function</u>	<u>Example</u>
"END"	ENDS THE PROGRAM When this command is recognized, AUTOB terminates.	"END"

NOTE: Use "CODE3" and "CODE3T" to handle cash transactions. If cash transactions are entered, a cash customer account code must have been built as a record in MASCU (by the CUSHN program). This code must have been entered as parameter 67 in the MASTE file. Otherwise, the following message is printed:

'NO CASH CUSTOMER CODE ON FILE-OPEN ONE WITH \$nnnnn CURRENT AMOUNT DUE'

AUTOB INVOICING ITEMS

Parameters from the AUTOB INVOICING ITEMS table are used to define the quantity and model number for standard items already in the master inventory file (MASIN) or to define the quantity, price and item description for nonstandard items which are not in the MASIN file.

<u>Code</u>	<u>Definition</u>	<u>Example</u>
500	CODE OF DEPARTMENT MAKING SALE A maximum of six characters. This code should be entered first in order to get the department code printed (in TEMIN) during an update.	500,"A25"
100	STANDARD INVENTORY ITEM Use the following format: 100, quantity sold, "model number" quantity sold = a maximum of five digits "model number" = a maximum of six characters	100,20,"A25"
200	STANDARD INVENTORY ITEM: NO TAX Use the following format: 200, quantity sold, "model number" quantity sold = a maximum of five digits "model number" = a maximum of six characters	200,100,"A217C1"
300	NONSTANDARD INVENTORY ITEM Use the following format: 300, quantity sold, price/item, "description" quantity sold = a maximum of five digits price/item = a maximum of '99999.99 "description" = a maximum of 18 characters	300,50,1.25,"MUFFS"
400	NONSTANDARD INVENTORY ITEM: NO TAX Use the following format: 400, quantity sold, price/item, "description" quantity sold = a maximum of five digits price/item = a maximum of 99999.99 "description" = a maximum of 18 characters	400,25,\$2.50,"PALLETS"

AUTOB CUSTOMER RECORD

Parameters from the AUTOB CUSTOMER RECORD table below are used by the AUTOB program to prepare invoices and to add customer records to the MASCU file. For one-time customers, the table provides the information used to make up an invoice. Note that the parameters are identical to the first 11 parameters in the CUSHN "ADD" PARAMETER CODES table. When AUTOB processes new customers, it adds their records to MASCU, initializes the 12 additional parameters of the master customer record and sets the unspecified parameters to zero or to blanks.

AUTOB Customer Record Codes

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
1	CUSTOMER CODE maximum of six characters	1,"123456"
2	FIRST NAME (OR INITIALS) A maximum of six characters	2,"ALFRED"
3	LAST NAME A maximum of 12 characters	3,"FRANKEN"
4	COMPANY NAME A maximum of 18 characters	4,"ALPHA, INC."
5	DEPARTMENT NAME A maximum of 18 characters	5,"Z-21"
6	STREET ADDRESS A maximum of 18 characters	6,"FRONT ST."

AUTOB Customer Record Codes (cont.)

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
7	CITY A maximum of 12 characters	7,"BUFFALO"
8	STATE A maximum of six characters	8,"PA."
9	ZIP CODE A five character field	9,"30301"
10	CLASS KEY (FOR MAILING LISTS) A maximum of three digits	10,245
11	CREDIT RATING A maximum of two characters	11,"A-"

NOTE: If the customer is not to be added to MASCU, any entry can be used for parameter 1 to indicate the nature of the transaction. The entry is printed on the invoice. For example, cash transactions could be indicated by just one parameter from the AUTOB CUSTOMER RECORD table:

"CODE3"

1,"CASH"

100,20,"A45"

AUTOB OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE TO AUTOB. Using the :JFILE directive, identify the ININ file.	:JFILE,ININ
2	START THE AUTOB PROGRAM. Using the :PROG directive, start AUTOB. The following request is typed: 'ENTER DATE: MO,DA,YR' Type the month, day and year to be printed on the invoices for this AUTOB run.	:PROG,AUTOB 01,01,71
3	ENTER INVOICE FORMS. AUTOB types the following message: 'ENTER FORMS AND CLEAR PAUSE' AUTOB SUSP Set up printer with required invoicing forms and then type the :GO directive at the system teleprinter.	:GO
4	AUTOB PROCESSES ININ FILE. When invoices are processed, they are printed on the output device, followed by this summary: INVOICES PROCESSED = nn DATE mm/dd/yy GROSS RECEIPTS W/O TAX \$nnnn.nn TOTAL SALES TAX \$nnnn.nn GRAND TOTAL \$nnnn.nn FILE TEMPL HAS BEEN UPDATED, RECORDS nnnn TO nnnn When AUTOB completes processing the following message is typed: AUTOB : STOP 0000	

AUTOB ERROR DIAGNOSTICS

The following error diagnostics could occur during AUTOB processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

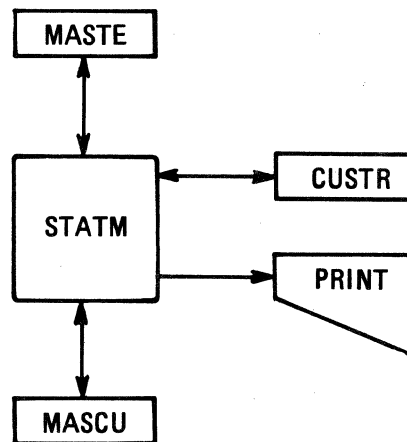
INVALID COMMAND
INVALID PARAMETER CODE
INVALID PARAMETER
MODEL NOT IN INVENTORY
INVALID DATE
CUSTOMER CODE NOT IN FILE
CUSTOMER CODE ALREADY IN FILE
CUSTOMER CODE MISSING
MASCU FILE FULL, CUSTOMER *nnnnnn* NOT ENTERED
NO END COMMAND
NO CASH CUSTOMER CODE ON FILE - OPEN ONE
WITH \$*nnnnnnn.nn* CURRENT AMOUNT DUE

NOTE: If an error occurs when invoices are being processed, the invoice in error is voided, and the following is printed on the invoice:

****** INPUT ERROR - THIS INVOICE IS VOID ******

STATM

The STATM program updates the master customer file (MASCU) while automatically printing statements to customers who have been issued invoices during the current accounting period.



NOTE: There are no commands for the STATM program.

STATM OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	START THE STATM PROGRAM. Using the :PROG directive, start STATM. The following request is typed: 'ENTER DATE OF STATEMENTS: MO,DA,YR' Type the date to appear in the state- ments in the form: mm,dd,yy.	:PROG,STATM 01,01,71
2	ENTER STATEMENT FORMS. STATM types the following message: 'ENTER FORMS AND CLEAR PAUSE' STATM SUSP Set up printer with required statement forms and type the :GO directive at the system teleprinter.	 :GO
3	STATM PRINTS THE STATEMENTS FOR THE CURRENT PERIOD. When all statements have been printed, the following summary is printed: STATEMENTS PROCESSED nn TOTAL DEBITS \$nnnnnn.nn TOTAL OLD CREDITS \$nnnnnn.nn TOTAL NEW CREDITS \$nnnnnn.nn TOTAL BALANCE DUE \$nnnnnn.nn TOTAL SALES TAX DUE \$nnnnnn.nn 'TO RUN STATEMENTS FOR ACCOUNTS NOT INVOICED THIS MONTH, RUN AUTST'	

STATM ERROR DIAGNOSTICS

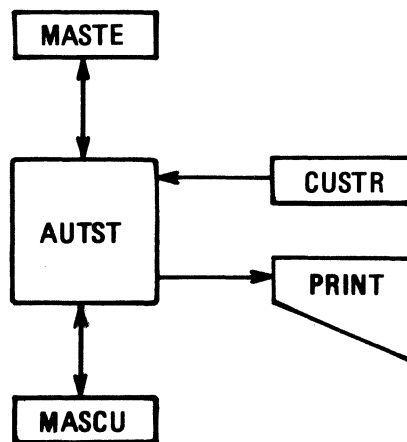
The following error diagnostic messages could occur during STATM processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

INVALID DATE

CUSTOMER FOR THE FOLLOWING TRANSACTION NOT ON FILE

AUTST

The AUTST program updates the master customer file (MASCU) while printing statements to customers who were not invoiced during the current period. AUTST can also be used to print a statement for any single customer.



PREREQUISITES

Run program STATM before running AUTST. Use the same date for AUTST as was used for STATM.

AUTST PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Example</u>
"AUTO"	PRINTS NON-CURRENT BALANCE DUE STATEMENTS When this command is entered, a statement is printed for all customers who were not invoiced during the current period, but who still owe money on their account. Note that the STATM program must have been run prior to the AUTST program.	"AUTO"
"PULL"	PRINTS A STATEMENT FOR ANY CUSTOMER When this command is entered, a statement is printed for the customer whose customer code is entered after the "PULL" command. This command can be used to print a statement for any customer on MASCU.	"PULL","A234"
"END"	ENDS THE AUTST PROGRAM When this command is entered, the AUTST program stops. The following message is typed on the system teleprinter. AUTST :STOP 0000	"END"

AUTST OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	START THE AUTST PROGRAM. Using the :PROG directive, start AUTST. If there are outstanding invoices, the following message is typed and the program stops: 'STATM MUST BE RUN FIRST'	:PROG,AUTST
2	ENTER DATE. The following request is typed: 'ENTER DATE OF STATEMENTS: MO,DA,YR' Type the date that is to appear on the statements. This date must be the same as the date last used for the STATM program.	01,01,71
3	ENTER STATEMENT FORMS. AUTST types the following message: 'ENTER FORMS AND CLEAR PAUSE' AUTST SUSP Set up the printer with the required statement forms and type the :GO directive.	:GO
4	ENTER REQUIRED COMMAND. AUTST then types the following request: 'ENTER COMMAND' Type either: "AUTO", "PULL" or "END"	"AUTO" "PULL","1234" "END"
5	"AUTO" PROCEDURE If "AUTO" was typed at Step 4, the statements are printed on the output device, followed by this summary: STATEMENTS PROCESSED nn TOTAL DEBITS \$ nnnn.nn TOTAL OLD CREDITS \$ nnnn.nn TOTAL NEW CREDITS \$ nnnn.nn TOTAL BALANCE DUE \$ nnnn.nn TOTAL SALES TAX DUE \$ nnnn.nn AUTST then returns to Step 4.	"AUTO"

AUTST OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
6	"PULL" PROCEDURE Enter the command "PULL" and the customer code required. AUTST prints a statement for that customer, then returns to Step 4.	"PULL","1234"
7	"END" PROCEDURE Enter "END". The following message is typed on the system teleprinter: AUTST: STOP 0000	"END"

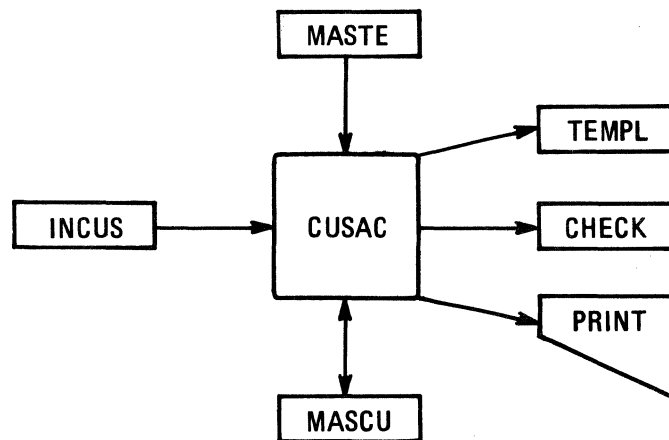
AUTST ERROR DIAGNOSTICS

The following error diagnostic messages could occur during AUTST processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

INVALID DATE
INVALID COMMAND
AUTO HAS ALREADY BEEN EXECUTED
CUSTOMER CODE NOT ON FILE
STATM MUST BE RUN FIRST

CUSAC

The CUSAC program updates the master customer file (MASCU) by processing an input file of customer payment information and CUSAC program commands.



PREREQUISITES

An input file (INCUS) of CUSAC program commands and customer payment data must have been created and set up for processing unless data and commands are to be entered directly from the system teleprinter. See the CUSAC program commands and Section V instructions.

CUSAC PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Example</u>
"UPDATE"	ENTERS PAYMENTS MADE AGAINST CUSTOMER ACCOUNTS Each item in the input file (INCUS) must have the format shown in the CUSAC "UPDATE" PARAMETER CODES table. When these items are processed by CUSAC, the TEMPL file is updated with balancing entries to cash and accounts receivable, and payments against accounts are recorded in the CHECK file as deposits.	"UPDATE" (followed by parameters)
"ALL"	PRINTS ALL CUSTOMER ACCOUNTS FROM MASCU FILE A summary of every customer account is printed. Items printed for each account are: customer code, company, current account due, amount of last statement, amount of last payment and total business to date. A summary of all accounts totals current amounts due, amounts of last statements issued, last payments received, and total business to date.	"ALL"
"DISPLY"	PRINTS A CUSTOMER RECORD FROM MASCU FILE Enter the command and the customer code for each customer record to be printed.	"DISPLY","1234"
"OVRDUE"	PRINTS OVERDUE PAYMENTS Enter the command and the lower and upper limit days desired. The overdue payments are printed.	"OVRDUE",45,60

CUSAC PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"AGED"	PRINTS AGED BALANCES OUTSTANDING Enter the command and the number representing the aged balance (60, 90, or 120) information stored by MASCU. All accounts with aged balances in that range are printed.	"AGED",60
"ACRECV"	PRINTS TOTAL ACCOUNTS RECEIVABLE SUMMARY FROM MASCU Enter the command. CUSAC prints a summary of receivables including total current amount due, amount of last statement issued, last payment received and total business to date.	"ACRECV"
"MAIL"	PRINTS SELECTED CUSTOMER ADDRESS LABELS Enter the command, or the command and the class key, for the particular mailing list desired. CUSAC prints address labels for all customers on the MASCU file with that class key, or for all customers if no class key is entered.	"MAIL",321 "MAIL"
"END"	TERMINATES THE CUSAC PROGRAM When entered from the system teleprinter, the "END" command terminates CUSAC. The following message is typed: CUSAC : STOP 0000	"END"

CUSAC "UPDATE" PARAMETER CODES

<u>Command</u>	<u>Function</u>	<u>Example</u>
first	CUSTOMER CODE A maximum of six characters	"A132B",
second	CHECK NUMBER A maximum of eight digits	1234,
third	DATE CHECK RECEIVED Entered in the form: mm,dd,yy	01,2,71,
fourth	THE CHECK AMOUNT A maximum of 10 digits (99999999.99)	1234.56
	"STOP" To terminate the list of "UPDATE" Codes.	"STOP"
	"UPDATE" "A132B",1234,1,2,71,1234.56 "A261A",13986,1,2,71,\$163.40 "29142",2740,1,2,71,1.98 "A6720",621,1,3,71,240 "STOP"	

CUSAC OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE (INCUS) TO THE PROGRAM. Using the :JFILE directive, identify the input file containing the customer payment records and the CUSAC program commands.	:JFILE,INCUS
2	START THE CUSAC PROGRAM. Using the :PROG directive, start CUSAC.	:PROG,CUSAC
3	ENTER THE DATE. CUSAC types the following request: 'ENTER DATE: MO,DA,YR' Type the date in this form: mm,dd,yy	01,31,71
4	CUSAC PROCESSES THE INPUT FILE. If all commands are in the INCUS input file, the entire file is processed automatically. If commands are typed through the system teleprinter, the CUSAC program types the following request: 'ENTER COMMAND' Type the required command, or enter "END" to terminate the program. The following message is typed when "END" is entered: CUSAC : STOP 0000	"END"

CUSAC OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
5	"MAIL" PROCEDURE When the "MAIL" command is recognized, the following message is typed: 'ENTER FORMS AND CLEAR PAUSE' CUSAC SUSP Place the address label forms in the printer and then type :GO. CUSAC then prints on address label centering line. Adjust the forms. To check the adjustment, type :GO,n (where n = any number not equal to zero). The centering line is printed again. This procedure can be repeated as many times as necessary to adjust the forms. When ready, type :GO (or :GO,Ø) to have the forms printed.	"MAIL",321 :GO :GO,1 :GO

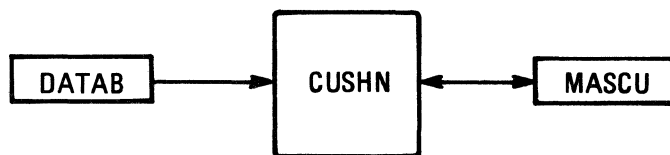
CUSAC ERROR DIAGNOSTICS

The following error diagnostic messages could occur during CUSAC processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

INVALID DATE
INVALID COMMAND
INVALID PARAMETER
NO END COMMAND
CUSTOMER CODE NOT ON FILE

CUSHN

The CUSHN program edits a master customer file (MASCU) by processing an input file containing customer record changes and CUSHN program commands.



PREREQUISITES

An input file (DATAB) of CUSHN program commands and customer records should be created and set up for processing unless data and commands are to be entered directly from the system teleprinter. See "CUSHN Program Commands" and Section V instructions.

CUSHN PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Example</u>
"ADD"	ADDS A CUSTOMER RECORD TO MASCU Enter the command and the customer code, followed by a parameter list. Parameters are used to identify items within each customer record. If a parameter is not entered, its field in the MASCU customer record is set to blanks (for characters) or to zero (for numbers). See the CUSHN "ADD" Parameter Codes Table.	"ADD","12345" (followed by parameter list)
"CHANGE"	REPLACES A MASCU CUSTOMER RECORD ITEM Enter the command, the customer code and the new values of items to be changed. Use the parameter codes and field sizes specified in the CUSHN "ADD" Parameter Codes table.	"CHANGE","12345" (followed by parameter list)
"DISPLY"	PRINTS A CUSTOMER RECORD FROM MASCU Enter the command, followed by the customer code.	"DISPLY","12345"
"DELETE"	REMOVES A CUSTOMER RECORD FROM MASCU Enter the command, followed by the customer code. CUSHN prints the customer record then the request: 'TYPE "YES" TO DELETE CUSTOMER CODE nnnnnn' Operator responds "YES" to delete the record from MASCU or "NO" (or any other entry) to cancel the request.	"DELETE","12345" "YES" "NO"

CUSHN PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"END"	ENDS THE INPUT FILE COMMANDS AND DATA When "END" is recognized, CUSHN terminates. The following message is then typed: CUSHN : STOP 0000	"END"

CUSHN "ADD" PARAMETER CODES

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
1	CUSTOMER CODE NUMBER A maximum of six characters	1,"123456"
2	FIRST NAME (OR INITIALS) A maximum of six characters	2,"ALFRED"
3	LAST NAME A maximum of 12 characters	3,"FRANKEN"
4	COMPANY NAME A maximum of 18 characters	4,"ALPHA, INC."
5	DEPARTMENT NAME A maximum of 18 characters	5,"Z-21"
6	STREET ADDRESS A maximum of 18 characters	6,"FRONT ST."
7	CITY A maximum of 12 characters	7,"BUFFALO"
8	STATE A maximum of six characters	8,"PA."
9	ZIP CODE A five-character field	9,"30301"
10	CLASS KEY (FOR MAILING LISTS) A maximum of three digits	10,245

CUSHN "ADD" Parameter Codes (cont.)

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
11	CREDIT RATING A maximum of two characters	11,"A-"
12	DATE OF LAST STATEMENT Date must be in the form: mm,dd,yy	12,01,01,71
15	DATE OF LAST PAYMENT Date must be in the form: mm,dd,yy	15,01,15,70
18	CURRENT AMOUNT DUE A maximum of nine digits*	18,1234.40
19	AMOUNT OF LAST STATEMENT A maximum of nine digits*	19,2111.60
20	AMOUNT OF LAST PAYMENT A maximum of nine digits*	20,1233.50
21	TOTAL BUSINESS TO DATE A maximum of nine digits*	21,3346.00
22	AMOUNT OVERDUE FOR 60 DAYS A maximum of nine digits*	22,215.60
23	AMOUNT OVERDUE FOR 90 DAYS A maximum of nine digits*	23,115.40
24	AMOUNT OVERDUE FOR 120 DAYS OR MORE A maximum of nine digits*	24,25.90

*Nine digits = 9999999.99 maximum. The decimal point must be present to get cent values. A dollar sign is optional.

CUSHN OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK INPUT FILE TO CUSHN PROGRAM. Using the :JFILE directive, identify the input file that contains the commands and data.	:JFILE,DATAB
2	START CUSHN. Using the :PROG directive, start the program.	:PROG,CUSHN
3	CUSHN PROCESSES THE INPUT FILE (DATAB). When CUSHN completes processing, it terminates. The following message is typed: CUSHN : STOP 0000	

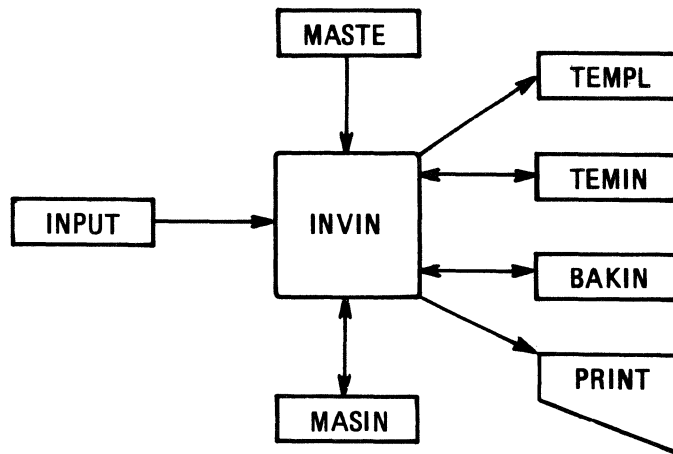
CUSHN ERROR DIAGNOSTICS

The following error diagnostics could occur during CUSHN processing. They are typed on the system teleprinter. See Section VI for a discussion of system error diagnostic messages.

INVALID COMMAND
CUSTOMER CODE IS NOT ON FILE
CUSTOMER CODE IS ALREADY ON FILE
CUSTOMER CODE IS MISSING
INVALID PARAMETER CODE
INVALID PARAMETER
MASCU FILE IS FULL - CUSTOMER nnnnnn WAS NOT ENTERED
NO END COMMAND
INVALID DATE

INVIN

The INVIN program edits a master inventory file (MASIN) by processing an input file containing changes to inventory records and INVIN program commands.



PREREQUISITES

An input file (INPUT) of INVIN program commands and changes to inventory data must have been created and set up for processing unless commands and data are to be entered directly from the system teleprinter. See the "INVIN Program Commands" and Section V instructions.

INVIN PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Example</u>
"ADD"	ADDS AN INVENTORY ITEM RECORD TO MASIN Enter command and the model number, followed by a parameter list. Parameters are used to enter each item in a MASIN inventory record. If any parameter is not entered, its field in the MASIN inventory record is set to blanks (for characters) or to zero (for numbers). See the INVIN "ADD" Parameter Codes for the parameters used.	"ADD","A12B" (followed by a parameter list)
"CHANGE"	REPLACES A MASIN INVENTORY RECORD ITEM(S) Enter the command, the inventory model number and the parameter list. Use the parameter codes and field sizes specified in the INVIN "ADD" Parameter Codes table.	"CHANGE","12345" (followed by a parameter list)
"DISPLY"	PRINTS AN INVENTORY RECORD FROM MASIN Enter the command, followed by the model number.	"DISPLY","12345"
"DELETE"	REMOVES AN INVENTORY ITEM FROM MASIN Enter the command, followed by the model number. INVIN types the inventory record, then the request: 'TYPE "YES" TO DELETE MODEL NO. nnnnn' Type "YES" to remove the inventory record from MASIN or "NO" (or any other entry) to cancel the deletion.	"DELETE","12345" "YES" "NO"

INVIN PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"END"	ENDS THE PROGRAM When "END" is recognized, INVIN completes processing of the input file. The following message is then typed: INVIN : STOP 0000	"END"
"ALL"	PRINTS EVERY INVENTORY RECORD IN MASIN When this command is entered, the entire MASIN file and a summary are printed.	"ALL"
"VALUE"	PRINTS THE TOTAL VALUE OF INVENTORY ON HAND When the command is entered, the cost of inventory, retail value and profit potential are summarized.	"VALUE"
"ORDER"	PRINTS INVENTORY ITEMS BELOW REORDER LEVEL When this command is entered, each inventory item at or below reorder level is printed.	"ORDER"
"PRICES"	PRINTS PRICE INFORMATION FOR INVENTORY When this command is entered, the prices for all inventory items are printed. To get prices for individual items, enter the command, followed by the model number.	"PRICES" "PRICES","12345"
"UPDATE"	UPDATES THE TEMPL FILE When this command is entered, the TEMPL file is updated with the accounts for costs of goods sold and inventory.	"UPDATE"

INVIN PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"RESTOK"	ADDS QUANTITIES TO INVENTORY AND PRINTS SHIPPING ORDERS FOR BACK-ORDERS Enter the command, followed by the model number and quantity of item(s) added to inventory. Terminate the list of items with "STOP". When this command is entered, any back orders (for inventory items which are being added to inventory) are processed.	"RESTOK" "A25",20 "A26",10 "STOP"

INVIN "ADD" PARAMETER CODES

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
1	MODEL NUMBER FOR MASIN INVENTORY ITEM A maximum of six characters.	1,"A25B"
2	PRODUCT DESCRIPTION A maximum of 18 characters.	2,"TAPES"
3	QUANTITY ON HAND A maximum of five digits.	3,10220
4	REORDER LEVEL A maximum of five digits	4,1022
5	DATE OF LAST ACTIVITY Date must be in the form: mm,dd,yy	5,01,01,71
8	UNIT COST A maximum of seven digits*	8,102.50
9	UNIT PRICE A maximum of seven digits*	9,125.00
10	SUPPLIER REFERENCE NUMBER A maximum of four digits*	10,2612
11	PRICE FOR FIRST PRICE BREAK A maximum of seven digits*	11,7.25

*Seven digits = 99999.99 maximum; four digits = 9999 maximum. The decimal point must be included to get cent values. A dollar sign is optional.

INVIN "ADD" PARAMETER CODES (cont.)

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
12	QUANTITY AT WHICH FIRST PRICE BREAK OCCURS A maximum of four digits*	12,300
13	PRICE FOR SECOND PRICE BREAK A maximum of seven digits*	13,5.75
14	QUANTITY AT WHICH SECOND PRICE BREAK OCCURS A maximum of four digits*	14,500

*Seven digits = 99999.99 maximum; four digits = 9999 maximum. The decimal point must be included to get cent values. A dollar sign is optional.

(

1-36

INVIN ERROR DIAGNOSTICS

The following error diagnostics could occur during INVIN processing. They are typed on the system teleprinter. See Section VI for a discussion of system error diagnostic messages.

INVALID COMMAND

MODEL ALREADY IN INVENTORY

MODEL NOT IN INVENTORY

MASIN FILE FULL - MODEL *nnnnn* NOT ENTERED

INVALID PARAMETER CODE

INVALID PARAMETER

MODEL NUMBER IS MISSING

INVALID DATE

MODEL SHOWS A NEGATIVE QUANTITY IN INVENTORY AND SHOWS NO BACK ORDER

NO ITEMS TO UPDATE

NO END COMMAND

INVALID QUANTITY

THIS QUANTITY WILL EXCEED LIMIT

SAMPLE REPORTS: ACCOUNTS RECEIVABLE AND INVENTORY

Following are samples of reports printed by Accounts Receivable and Inventory programs. Each report is preceded by the name of the program and the commands (if any) that were used to produce the report.

INVIN

"RESTOK"
"G800",50
"STOP"

INVOICE NO. 2013 BK-ODR CUSTOMER CODE: P2000 DATE: 5/ 1/71

R. M. PEARSON
GENERAL HOTEL SUP.
SUPERVISOR
1475 YOSEMITE
SN FRNCISCO, CALIF. 91302

ITEMS BACK ORDERED FROM: 4/ 1/71

10 G800 PALMER GOLF BALLS

AUTOB

"CODE1","1017"
200,4,"A217C1"

INVOICE

INVOICE NO. 137

CUSTOMER CODE: 1017

DATE: 7/15/71

TERRY HABIB
NELSON RICHARD CO
ACCOUNTS
1377 HAIGHT
S.F. , CALIF 95014

QUANTITY	NUMBER	DESCRIPTION	PRICE	TOTAL
4	A217C1	CONVERSION HEATERS	1000.00	4000.00
		SUBTOTAL	\$.00	
		TAX	\$.00	
		TOTAL NON-TAXABLES	\$ 4000.00	
		GRAND TOTAL	\$ 4000.00	

INVOICES PROCESSED = 1

DATE: 7/15/71

GROSS RECEIPTS W/O TAX \$ 4000.00

TOTAL SALES TAX \$.00

GRAND TOTAL \$ 4000.00

FILE TEMPL HAS BEEN UPDATED - RECORDS 22 TO 24

1

DATE: 7/31/71

TERRY HABIB
NELSON RICHARD CO
ACCOUNTS
1377 HAIGHT
S.F. , CALIF 95014

©

STATEMENTS PROCESSED	1
TOTAL DEBITS	\$ 4000.00
TOTAL OLD CREDITS	\$.00
TOTAL NEW CREDITS	\$ 1207.75
TOTAL BALANCE DUE	\$ 14000.00
TOTAL SALES TAX DUE	\$.00

"PULL", "1001"

STATEMENT NO. 124 CUSTOMER CODE: 1001 DATE: 4/15/71

[illegible]

1-41

CUSAC

"DISPLY", "1001"

1001

DAVE SANDERS

AT HYDRAULIC

ACCOUNTS

1655 PERALTA AV

SAN JOSE , CALIF

95014 KEY 0

DATE LAST STATEMENT

4/15/71

AMOUNT LAST STATEMENT

\$ 628.81

DATE LAST PAYMENT

3/12/71

AMOUNT LAST PAYMENT

\$ 53.12

CURRENT AMOUNT DUE

628.81

TOTAL BUSINESS TO DATE

\$ 1160.01

CREDIT

AGED BALANCE: 60 DAYS: 53.12 90 DAYS: 53.12 120 DAYS: 522.57

CUSAC

"ACRECV"

TOTAL CURRENT AMOUNT DUE

\$ 1639.99

TOTAL AMOUNT LAST STATEMENTS

\$ 1639.99

TOTAL AMOUNT LAST PAYMENTS

\$ 53.12

TOTAL ALL BUSINESS TO DATE

\$ 2171.19

CUSAC

"AGED", 60

1001

60 DAYS:

53.12

90 DAYS:

53.12

120 DAYS: 522.57

CUSAC

"OVRDUE", 0, 60

DAYS OVER ON PAYMENT 34

1001 DATE LAST PAYMENT

3/12/71

CURRENT AMOUNT DUE \$

628.81

AGED BALANCE: 60 DAYS: 53.12 90 DAYS: 53.12 120 DAYS: 522.57

CUSAC

"MAIL"

*** LABEL CENTERING LINE ***

DICK NAFTZGER

R.W. ATKINSON CO

ACCOUNTS

297 N BAYSHORE

CUPERTINO , CALIF 95014

JIM OBRIANT

B.W. HYDRAULICS

ACCOUNTS

45 UTAH AV

S.F. , CALIF 95014

CUSHN

"DISPLY","1017"

1017	TERRY HABIB	NELSON RICHARD CO	ACCOUNTS
	1377 HAIGHT	S.F. CALIF	95014 0
DATE LAST STAT.	DATE LAST PAY.	CUR. AMT. DUE	LAST STAT. LAST PAY.
7/31/71	8/10/71	6500.00	14000.00 7500.00
AMT. DUE 0-59	60-89	90-120	TOT BUS TO DATE CREDIT
2000.00	500.00	.00	15271.80 A-

INVIN

"DISPLY","070016"

MODEL	DESCRIPTION	QTY ON HAND	REORDER LEVEL	DATE	REF. NO
070016	GATES 4-4RMJ STEM	6	3	0/ 0/ 0	0
COST	PRICE	1ST PRICE BREAK	QUANTITY	2ND PRICE BREAK	QUANTITY
.32	1.35	.99	10	.69	20

INVIN

"VALUE"

INVENTORY COSTS	\$	9476.51
RETAIL VALUE	\$	33935.97
PROFIT POTENTIAL	\$	24459.46

INVIN

"PRICES","070016"

MODEL	DESCRIPTION	COST	PRICE	1ST PR.BRK.	QTY	2ND PR.BRK.	QTY
070016	GATES 4-4RMJ STEM	.32	1.35	.99	10	.69	;

INVIN

"ALL"

MODEL	DESCRIPTION	QTY	ROL	DATE	COST	PRICE	REF
010001	FILLER BREATHER	15	10	4/13/71	.75	3.90	0
010002	SUCTION FLANGE 1/2	20	10	0/ 0/ 0	.75	2.50	0
010003	SUCTION FLANGE 3/4	20	10	0/ 0/ 0	.75	2.50	0
:							
070031	4RLF SET FERRULES	228	120	6/ 1/71	.18	.75	0
070032	6RLF SET FERRULES	432	216	0/ 0/ 0	.23	.90	0
070033	8RLF SET FERRULES	834	417	0/ 0/ 0	.33	1.29	0
INVENTORY COSTS		\$	9476.51				
RETAIL VALUE		\$	33935.97				
PROFIT POTENTIAL		\$	24459.46				

INVIN

"ORDER"

** RE-ORDER DATA

MODEL	DESCRIPTION	QTY	ROL	QFBO	QSRL	RODR	COST	TOT COST	REF
010005	RETURN FLANGE 1/2	8	10	0	2	2	.50	1.00	0
010016	HYD OIL 150 SSU 5G	3	4	0	1	1	2.50	2.50	0
030001	4 WAY VLV LV C/SC	-1	1	1	1	2	25.00	50.00	0
030007	DV123 3DET-C 4-WAY	0	1	0	1	1	12.00	12.00	0
040002	FULFLO 1/2 REL VLV	2	3	0	1	1	6.25	6.25	0
070022	4C5-4RMP COUPLING	10	11	0	1	1	.14	.14	0
TOTAL REORDER COST		\$	71.89						

INVIN

"PRICES"

MODEL	DESCRIPTION	COST	PRICE	1ST PR.BRK.	QTY	2ND PR.BRK.	QTY
010001	FILLER BREATHER	.75	3.90	2.30	10	1.29	20
010002	SUCTION FLANGE 1/2	.75	2.50	2.00	10	1.30	20
010003	SUCTION FLANGE 3/4	.75	2.50	2.00	10	1.30	20
010004	SUCTION FLANGE 1	.75	2.50	2.00	10	1.30	20
:							
070030	8C5-8RFJX COUPLING	.30	1.39	1.01	10	.60	20
070031	4RLF SET FERRULES	.18	.75	.55	10	.38	20
070032	6RLF SET FERRULES	.23	.90	.66	10	.46	20
070033	8RLF SET FERRULES	.33	1.29	.94	10	.66	20

SECTION II

PROCESSING ACCOUNTS PAYABLE

This section contains instructions for using the following programs:

PAYHN, which can enter creditor invoicing data to the master creditor file and interim files and print several creditor invoice and payable reports for use when calculating payments to creditors.

PAYIN, which can print checks and itemized vouchers for each creditor invoice payable; provide for overrides, partial payments, discounts and adjustments to accounts; and enter the results into the master creditor file and interim files.

VENHN, which can edit and print records from the master creditor file.

PREREQUISITES

Before Accounts Payable can be processed, the following processes must have occurred. See the *CONVERSION GUIDE* for instructions.

The MASTE file must have been created and built by the SETP1 program to include Accounts Payable parameters.

The MASCR, PAYFL, TEMPL and CHECK files must have been created by the SETP2 program.

The MASCR file must have been built by the VENHN program to include all year-to-date creditor records.

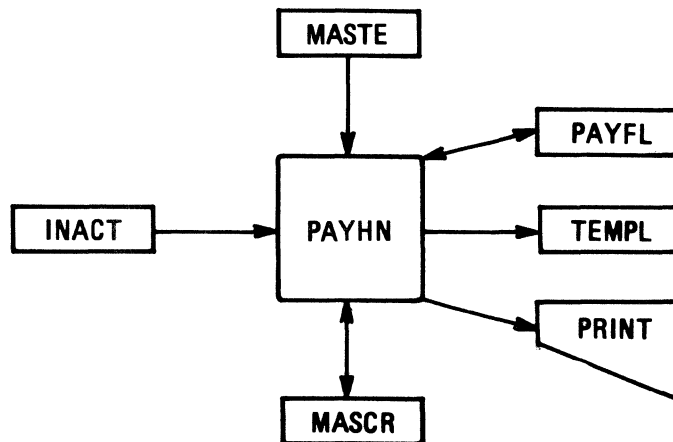
NORMAL JOB PROCESSING

Normal job processing for Accounts Payable would include:

1. Building, editing and storing any required input files separately for the job(s) in which they are executed (unless these files are entered through the system teleprinter).
2. Making any required changes to MASCR before executing any job that processes creditor records.
3. Executing PAYHN before executing PAYIN to insure that the reports from PAYHN include up-to-date creditor invoicing data.
4. Purging any input file after it has been used.

PAYHN

The PAYHN program processes an input file (INACT) of creditor invoice information; enters this invoicing information into file PAYFL; posts balancing payables and expenses to file TEMPL; and updates the master creditor file (MASCR). When it is time to pay creditors, several reports can be printed using PAYHN commands. These reports are used to define items in an input file (PAYIT) used by the PAYIN program.



PREREQUISITES

An input file (INACT) of creditor-invoicing data and PAYHN commands must have been created and set up for processing, unless data and commands are to be entered directly from the system teleprinter. See the PAYHN program commands and Section V for instructions.

PAYHN PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Example</u>
"UPDATE"	UPDATES INVOICING FOR PAYFL AND TEMPL FILES When this command is entered, items in the input file (INACT) are added to file PAYFL for later processing by the PAYIN program. Also, new payables and their offsetting expenses are added to file TEMPL. See the PAYHN "UPDATE" PARAMETER CODES for the parameters used to describe each invoice in file INACT.	"UPDATE" (followed by invoicing data)
"STOP"	TERMINATES "UPDATE" INVOICING DATA This command is entered as the last statement in an input file of "UPDATE" invoicing data.	"STOP"
"END"	TERMINATES THE PAYHN PROGRAM When this command is entered, the PAYHN program stops all processing. The following message is typed: PAYHN : STOP 0000	"END"

NOTE: If INACT is a disc or magnetic tape file, PAYHN will terminate automatically on reading an end-of-file. If INACT is entered from any other input device, the PAYHN program is not terminated until an "END" command is entered.

PAYHN PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"SHOW"	PRINTS ALL INFORMATION FOR INVOICE REQUESTED Enter the command, followed by the vendor code and the vendor's invoice number. PAYHN prints the PAYFL record for that invoice.	"SHOW","12345","2567"
"SHOW-1"	PRINTS INVOICES TO BE PAID AT A DISCOUNT Enter the command. PAYHN prints all invoices which must be paid prior to a specified date in order to take advantage of any discounts offered by creditors.	"SHOW-1"
"OVRDUE"	PRINTS INVOICES WHICH CANNOT NOW BE DISCOUNTED Enter the command, followed by the low bound desired (if no number entered, zero is assumed). PAYHN prints all overdue invoices equal to or greater than the number entered.	"OVRDUE",120
"ALL"	PRINTS TOTALS FOR ACCOUNTS PAYABLE Enter the command. PAYHN prints the total amount due for each creditor in the MASCR file.	"ALL"
"VENDOR"	PRINTS ALL INVOICES FOR VENDOR REQUESTED Enter the command, followed by the vendor code. PAYHN prints all invoices in the PAYFL file for the named vendor, and totals the amount owed to him.	"VENDOR","12345"

PAYHN "UPDATE" PARAMETER CODES

Each invoice described in the input file for an "UPDATE" must contain the parameters described below, unless they do not apply to the specific invoice. Parameters must be entered in the order shown.

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
1	DESCRIBE THE VENDOR AND THE INVOICE	
	The Code 1 parameters have the following format:	
	1,"vendor","invoice",date,"description","dept.#"	
	1 = the number for Code 1	1,
	"vendor" = the vendor code (six characters maximum)	"123456",
	"invoice" = the invoice # (six characters maximum)	"2461",
	date = date of the invoice in the form: mm,dd,yy	01,15,71,
	"description" = the item(s) (12 characters maximum)	"GOLF BALLS",
	"dept.#" = purchasor (omit if no dept. ledger)	"A001"
2	DESCRIBE THE INVOICING PRICING	
	The Code 2 parameters have the following format:	
	2,amount,"type of discount",discount,days available	
	2 = the number for Code 2	2,
	amount = the dollar amount of the invoice	\$1500.00,
	"type of discount" = "P" for a percentage discount; "D" for a dollar amount discount; "N" for no discount. (If "N", omit the next two parameters.)	"P",

PAYHN "UPDATE" PARAMETER CODES (cont.)

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
2	DESCRIBE THE INVOICING PRICING (cont.)	
discount	= if type of discount is "P", enter the discount by percentage; if type is "D", enter the dollar amount of the discount.	2.5%,
days available	= number of days before discount expires	10

3 DESCRIBE INVOICE DISBURSEMENT

The Code 3 parameters have the following format:

3,amount,ledger account

3	= the number for Code 3	3,
amount	= the amount to disburse to the ledger account in the next parameter	\$500.00,
ledger account	= the account to which the disbursement is going.	124

Note that there can be as many disbursements as necessary to balance the invoice total. However, a Code 3 entry must be made for each disbursement. (This disbursement total must equal the invoice total).

Invoice = \$1500.00
3,500.00,124
3,750.00,130
3,250.00,134

Summary of Examples

1,"123456","2461",01,15,71,"GOLF BALLS","A001"
2,\$1500.00,"P",2.5%,10
3,500.00,124
3,750.00,130
3,250.00,134

PAYHN OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE (INACT) TO PAYHN. Using the :JFILE directive, identify the input file for an "UPDATE" procedure. If no UPDATE procedure is being done, go to Step 2.	:JFILE,INACT
2	START THE PAYHN PROGRAM. Using the "PROG directive, start PAYHN.	:PROG,PAYHN
3	PAYHN REQUESTS A COMMAND ENTRY. When an input file is not used, PAYHN types the following request: 'ENTER COMMAND' Type the command desired. See the procedures below.	
4	"UPDATE" PROCEDURE Enter the "UPDATE" command and the required information from the PAYHN "UPDATE" parameter codes table for each invoice (in file INACT). Terminate the "UPDATE" parameters with a "STOP".	"UPDATE" (followed by "UPDATE" parameters and "STOP")

PAYHN OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
5	"END" PROCEDURE When the Step 3 message is typed, type "END" to terminate PAYHN. The following messages are then typed (and printed): 'TEMPL RECORDS nn THROUGH nn UPDATED, TOTAL PAYABLES = \$nnn.nn PAYHN : STOP 0000	"END"
6	"SHOW" PROCEDURE When the Step 3 message is typed, type "SHOW" followed by the vendor code and the invoice number. PAYHN prints the invoice information and returns to Step 3.	"SHOW","12345","4361"
7	"SHOW-1 PROCEDURE" When the Step 3 message is typed, type "SHOW 1". PAYHN then types the following request: 'ENTER DATE FOR INVOICE COMPARISON: MO,DA,YY Type the date. PAYHN then prints all invoices which must be paid prior to that date to qualify for any discounts, then returns to Step 3. If no discounts are available from the date entered, PAYHN types this message: 'NO DISCOUNTS POSSIBLE FROM THIS DATE' and then returns to Step 3.	"SHOW-1" 02,15,71

PAYHN OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
8	"OVRDUE" PROCEDURE When the Step 3 message is typed, type "OVRDUE" followed by the number of days required. PAYHN then types the following message: 'ENTER DATE FOR INVOICE COMPARISON: MO,DA,YR' Type the date. PAYHN prints all invoices which are overdue from that date and returns to Step 3. If there are no overdue invoices from the date entered (or less), PAYHN types: 'NO OVERDUE INVOICES IN "PAYFL"' and then returns to Step 3.	"OVRDUE",120 01,31,71
9	"ALL" PROCEDURE When the Step 3 message is typed, type "ALL". PAYHN prints the total amount owed to each vendor in the master creditor file (MASCR), then returns to Step 3.	"ALL"
10	"VENDOR" PROCEDURE When the Step 3 message is typed, type "VENDOR" followed by the vendor code. PAYHN prints a summary of all outstanding invoices for the vendor and a total of the amount owed to that vendor (from MASCR), then returns to Step 3.	"VENDOR","12345"

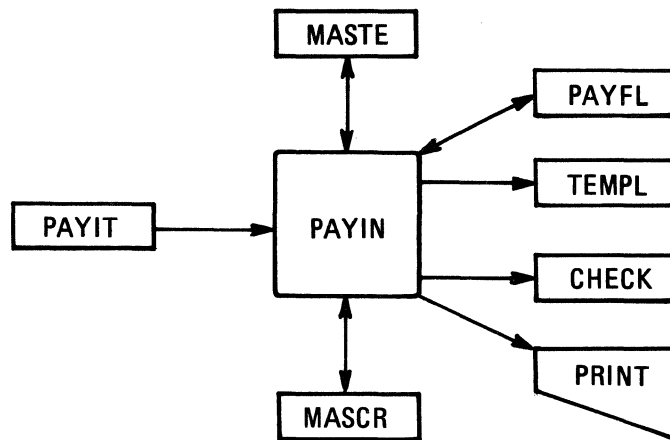
PAYHN ERROR DIAGNOSTICS

The following error diagnostic messages could occur during PAYHN processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

VENDOR NOT IN FILE MASCR
NO SUCH INVOICE
INVALID PARAMETER
TOO MANY PARAMETERS
INVALID COMMAND
INVALID DATA CODE
DUPLICATE INVOICE FOR VENDOR
VENDOR ALREADY IN FILE

PAYIN

The PAYIN program processes an input file of payment terms and conditions (PAYIT) to produce checks and vouchers for payments to creditors; subtracts payments made from file PAYFL; updates file CHECK with check information; and posts balancing entries to file TEMPL.



PREREQUISITES

The reports generated by the PAYHN program commands determine the entries used to build the input file (PAYIT) for PAYIN processing. Once the payments are decided, use the PAYIN command codes from the PAYIN COMMAND CODES table, to structure the entries in the input file. PAYIN processes the payments in the order they are encountered in PAYIT.

PAYIN COMMAND CODES

<u>Code</u>	<u>Meaning</u>	<u>Examples</u>
1	DATE FOR ALL CHECKS PRINTED Enter the code, followed by the date, in this form: mm,dd,yy. All checks will be printed using this date, until a new code 1 date is encountered in PAYIT. Whenever a code 1 entry is made, it must be immediately followed by a code 2 or code 6 entry.	1,01,31,71
2	FOLLOWING INVOICES ARE FROM NAMED VENDOR Enter the code, followed by the vendor code. Payments against invoices from this vendor must follow. (Use codes 3, 4 and 5 to show the type of payment for each invoice. This code remains in force until another code 2, a code 6 or a code 1 entry is entered.	2,"12345"
6	FOLLOWING INVOICES ARE ONE-TIME PAYMENTS Enter the code, followed by the special vendor code for one-time payments and the name to be printed on the check (a maximum of 18 characters). Use codes 3, 4, and 5 to show the types of payment. This code remains in force until another code 2, a code 6, or a code 1 entry is entered.	6,"1001","R.T. JONES"
7	TERMINATE PAYIN Enter the code. When this code is encountered, PAYIN stops processing. The following message is typed: PAYIN : STOP 0000	7

PAYIN COMMAND CODES (cont.)

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
3	PAY FULL INVOICE AMOUNT, TAKE AVAILABLE DISCOUNT Enter the code and the invoice number. PAYIN pays the full amount of the invoice, and takes a discount if it is available. One code 3 entry must be made for each vendor's invoice to be paid in full. All code 3 invoice numbers must be those received from the vendor named in the preceding code 2 or code 6 entry.	3,"4261"
4	MAKE PARTIAL PAYMENT ON INVOICE Enter the code, followed by the invoice number and the dollar amount of the partial payment to be made. One code 4 entry must be made for each vendor's invoice to be partially paid. All code 4 invoice numbers must be those received from the vendor named in the preceding code 2 or code 6 entry.	4,"4622",\$500.00
5	ADJUST INVOICE AND LEDGER ACCOUNT Enter the code, the invoice number, the dollar amount of the adjustment and the ledger account number for which the adjustment is made. A corresponding amount is deducted from the ledger account number for accounts payable. One code 5 entry must be made for each vendor's invoice to be adjusted. All code 5 numbers must be those received from the vendor named in the preceding code 2 or code 6 entry. Use this code for credit memos, breakage or other types of adjustments. No check or voucher is printed when code 5 is used.	5,"4623",200.00,930

PAYIN OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE (PAYIT) TO THE PROGRAM. Using the :JFILE directive, identify the file containing the payment information and the PAYIN payment codes.	:JFILE,PAYIT
2	START PAYIN. Using the :PROG directive, start PAYIN.	:PROG,PAYIN
3	ENTER CHECK FORMS. After PAYIN processes the first code 3 or code 4 entry, the following message is typed: 'ENTER FORMS AND CLEAR PAUSE' PAYIN SUSP Load the correct check forms in the printer and type :GO.	:GO
4	PAYIN PROCESSES PAYIT, PRODUCING CHECKS. As each code 2 or code 6 entry is encountered, the following message is typed: 'VENDOR = xxxxxx PAYEE IS "name"' where "name" = 18 characters maximum. When the program terminates, the following messages are typed (the first is also printed): 'TEMPL RECORDS nn THROUGH nn UPDATED, nn CHECKS MADE PAYIN : STOP 0000	

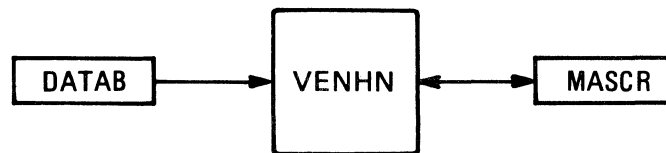
PAYIN ERROR DIAGNOSTICS

The following error diagnostic messages could occur during PAYIN processing. They are typed on the system teleprinter. See Section VI for a discussion of system error diagnostic messages.

VENDOR NOT IN FILE
NO SUCH INVOICE
INVALID PARAMETER
TOO MANY PARAMETERS
INVALID PAYMENT CODE

VENHN

The VENHN program edits a master creditor file (MASCR) by processing an input file containing changes to creditor and vendor records and VENHN commands.



PREREQUISITES

An input file of VENHN commands and creditor data should be created and set up for processing unless data and commands are to be entered directly through the system teleprinter. See VENHN Program Commands and Section V for instructions.

VENHN PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Example</u>
"ADD"	ADDS A CREDITOR RECORD TO MASCR Enter the command, the creditor code and the required parameters. Every creditor (vendor) record must be entered using this command. Parameters are used to identify items in each creditor record. (See VENHN "ADD" Parameter Codes.) If a parameter is not entered, its field is set to zero (if numeric) or to blanks (if characters).	"ADD", "012345" (followed by parameter list)
"CHANGE"	REPLACES A CREDITOR RECORD ITEM Any item in a creditor record can be replaced using this command. Enter the command, the creditor number, the parameters and new values of items to be changed. Use the parameter codes and field sizes specified in VENHN "ADD" Parameter Code table.	"CHANGE", "012345" (followed by parameter list)
"DISPLY"	PRINTS A CREDITOR RECORD FROM MASCR Enter the command, followed by the creditor reference number.	"DISPLY", "012345"
"DELETE"	DELETES A CREDITOR RECORD FROM MASCR The creditor record is printed, followed by the request: 'TYPE "YES" TO DELETE VENDOR NO. nnnnnn' Operator responds "YES" to delete the creditor record, from the MASCR file, or responds with any other entry to cancel the request.	"DELETE", "012345" "YES" "NO"

VENHN PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"END"	ENDS THE INPUT FILE COMMANDS AND DATA When "END" is recognized, VENHN has completed processing of the input file and closes the MASCR and DIRCR files. The following message is typed: VENHN : STOP 0000	"END"

NOTE: If an amount due on account is entered for a creditor (VENHN "ADD" Parameter Code 9), the invoices comprising this amount should be written into file PAYFL (using the PAYHN program) so totals calculated by PAYHN and PAYIN will include that balance due.

VENHN "ADD" PARAMETER CODES

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
1	CREDITOR (VENDOR) CODE A maximum of six characters	1,"Ø12345"
2.	COMPANY NAME A maximum of 18 characters	2,"BEAVER TRUST"
3	DEPARTMENT NUMBER A maximum of 12 characters	3,"Z-24"
4	STREET ADDRESS A maximum of 18 characters	4,"FRONT STREET"
5	CITY A maximum of 12 characters	5,"BEAVER FALLS"
6	STATE A maximum of six characters	6,"PENNA."
7	ZIP CODE A maximum of five characters	7,"Ø1234"
8	TOTAL BUSINESS TO DATE A maximum of nine digits (999999999). The decimal point must be entered to get cent values. A dollar sign is optional.	8,1621Ø.6Ø
9	BALANCE DUE ON ACCOUNT A maximum of nine digits (9999999.99). The decimal point must be entered to get cent values. A dollar sign is optional	9,821Ø.ØØ

VENHN OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE TO THE VENHN PROGRAM. Using a :JFILE directive, identify the input file containing the records and commands.	:JFILE,DATAB
2	START VENHN. Using the :PROG directive, start VENHN.	:PROG,VENHN
3	VENHN PROCESSES THE INPUT FILE. VENHN processes the input file, updating MASCR When VENHN completes processing, the following message is typed: VENHN : STOP 0000	

VENHN ERROR DIAGNOSTICS

The following error diagnostic messages could occur during VENHN processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

VENDOR ALREADY IN FILE
VENDOR NOT IN FILE
INVALID COMMAND
INVALID PARAMETER CODE
INVALID PARAMETER
TOO MANY PARAMETERS

SAMPLE REPORTS: ACCOUNTS PAYABLE

Following are samples of reports printed by Accounts Payable programs. Each report is preceded by the name of the program and the commands (if any) that were used to produce the report.

PAYHN "ALL"

ALL

VENDOR	TOTAL
"H-P 03"	350.00
"H-P 04"	8016.95
"H-P 16"	36201.98
"W-1 "	8980.50
"W-2 "	7385.00
"1 "	145.00
TOTAL PAYABLES = 61079.43	

PAYHN "SHOW","H-P 04","INV#2"

VENDOR "H-P 04"

INVOICE	DATE	AMOUNT	DISCOUNT	DAYS	DESCRIPTION	DEPT.
INV#2	03/01/71	200.00	20.00	10	TRAILER HOOK	
VENDOR TOTAL		200.00				

PAYHN

"VENDOR", "W-1"

VENDOR "W-1"

INVOICE	DATE	AMOUNT	DISCOUNT	DAYS	DESCRIPTION	DEPT.
#01	12/12/70	4100.00	820.00	30	COMMODOES	
#02	12/12/70	1200.00	200.00	30	240, BASINS	
#03	12/20/70	2000.00	150.00	30	2000, TOWELS	
#05	12/30/70	500.00	50.00	10	SOAP POWDER	
#06	12/30/70	450.00	45.00	10	HAND BRUSHES	
#07	01/02/71	550.00	60.00	10	DUST MOPS	
#08	01/02/71	67.50	.00	0	WET MOPS	
#09	01/20/71	40.00	5.00	10	T. TISSUE	
#10	02/03/71	73.00	7.30	10	FLOOR WAX#	

VENDOR TOTAL 8980.50

PAYHN

"OVRDUE", 60

OVERDUE BY 60 DAYS. 03/16/71

VENDOR INVOICE DUE DATE DAYS OVERDUE

W-1	#01	1/11/71	64
W-1	#02	1/11/71	64
W-1	#05	1/ 9/71	66
W-1	#06	1/ 9/71	66
W-1	#07	1/12/71	63
W-1	#08	1/ 2/71	73

PAYHN

"SHOW-1"

SHOW INVOICES TO BE PAID PRIOR TO 03/16/71 FOR DISCOUNT

VENDOR	INVOICE	DUE DATE	GROSS AMT.	DISCOUNT	NET AMT. DUE
H-P 04	INV#1	3/31/71	4766.95	953.39	3813.56
H-P 04	INV#3	4/ 1/71	2500.00	125.00	2375.00
H-P 04	INV#4	4/16/71	550.00	100.00	450.00
W-2	CON41	3/21/71	1500.00	200.00	1300.00
W-2	#03	4/ 3/71	5500.00	1375.00	4125.00

PAYHN

"VENDOR", "H-P 16"

VENDOR "H-P 16"

INVOICE	DATE	AMOUNT	DISCOUNT	DAYS	DESCRIPTION	DEPT.
INV#1	02/01/71	51.98	9.88	10	STETHOSCOPE	
INV#2	02/01/71	1150.00	115.00	10	MICROSCOPE	
INV#3	02/03/71	35000.00	3500.00	15	HP2116/DOS	

VENDOR TOTAL 26201.98

PAYIN

VOUCHER AND CHECK

SUPPLIER #	H-P 04	CHECK #	71015	DATE	03 11 71
INVOICE #	AMOUNT	DISCOUNT	NET		
INV#1	4766.95	953.39	3813.56		
INV#2	200.00	20.00	180.00		
INV#3	2500.00	125.00	2375.00		
INV#4	550.00	100.00	450.00		
		TOTAL NET	6818.56		

SUPPLIER
H-P 04
NUMBER

DATE
03 11 71
MO DY YR

CHECK
71015
NUMBER

PAY EXACTLY
\$ 6818.56
DOLLARS CENTS

PAY TO THE ORDER OF
COLORADO SPRINGS DIV

AUTHORIZED SIGNATURE

VENHN

"DISPLY", "104"

VENDOR 104 DEPT MAINTENANCE 321.65 DUE 643.30 TO DATE
GROUNDSKEEPERS INC/ 11566 WOLFE ROAD/ CUPERTINO/ CALIF 95014

SECTION III

PROCESSING PAYROLL

This section contains instructions for using the following programs:

PAYRL, which can print checks and stubs for weekly, biweekly, semi-monthly and monthly payrolls, enter payroll data into the master employee file and interim files, and print a trial payroll run.

REPT, which can print annual W-2 forms and quarterly tax information for federal tax form 941, and enter the results into the master employee file and interim files.

EMPHN, which can edit and print records from the master employee file.

PREREQUISITES

Before Payroll can be processed, the following processes must have occurred. See the CONVERSION GUIDE for instructions.

The MASTE file must have been created and built by the SETP1 program to include Payroll parameters.

The MASEM, TEMPL and CHECK files must have been created by the SETP2 program.

The MASEM file must have been built by the EMPHN program to include all year-to-date employee records.

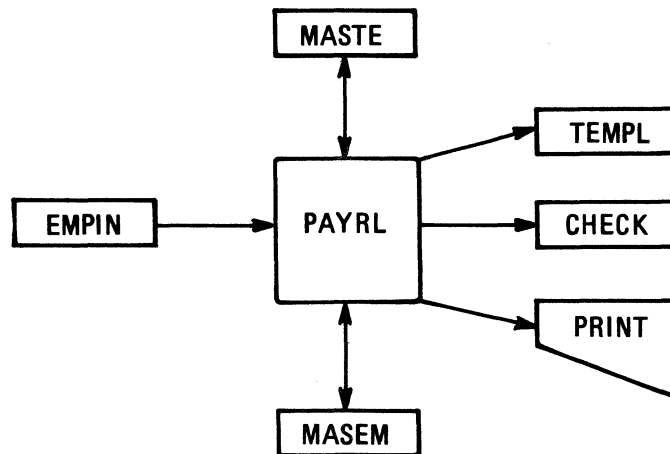
NORMAL JOB PROCESSING

Normal job processing for Payroll would include:

1. Building, editing and storing any required input files separately for the job(s) in which they are executed (unless these files are entered through the system teleprinter).
2. Making any required changes to MASEM before executing any job that processes employee records.
3. Purging any input file after it is used.

PAYRL

The PAYRL program updates the master employee file (MASEM) and makes entries to the CHECK and TEMPL interim files while processing an input file of employee payroll data and PAYRL program commands.



PREREQUISITES

An input file (EMPIN) of employee payroll data and PAYRL commands must have been created and set up for processing. See the PAYRL program commands and Section V for instructions. Note that if an EMPIN file exists from a previous PAYRL run, it must be purged before entering the new data and PAYRL program commands.

PAYRL PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Examples</u>
"SETUP"	SETS UP BASIC INFORMATION FOR PAYRL PROCESSING "SETUP" must be the first command in a sequence of PAYRL commands. The parameters defined remain in effect until another "SETUP" command is encountered in the EMPIN file, or until the "END" (or "TRIAL") command is reached. See the PAYRL "SETUP" PARAMETERS for the entries.	"SETUP" (followed by parameters)
"NOPAY"	REMOVES AN EMPLOYEE FROM THIS PAYRL RUN Places the employee in an inactive status for one PAYRL sequence of commands only. If "NOPAY" is used for an employee already in an inactive status, he is automatically returned to active status when the next PAYRL sequence is run.	"NOPAY",Ø12345
"SINGLE"	PAYS ONE EMPLOYEE ON AN EXCEPTION BASIS See PAYRL "SINGLE" PARAMETERS for the entries.	"SINGLE",Ø12345
"HOURLY"	PREPARES PAYROLL FOR REGULAR HOURLY EMPLOYEES All active hourly employees not listed as exceptions by "NOPAY" are processed according to their respective hourly rates.	"HOURLY"
"SALARY"	PREPARES PAYROLL FOR REGULAR SALARIED EMPLOYEES All active salaried employees not listed as exceptions by "NOPAY" are processed according to their respective pay period rates.	"SALARY"

PAYROL PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Examples</u>
"END"	ENDS THE INPUT FILE OF DATA AND COMMANDS When "END" is recognized, PAYRL completes processing of the input file; updates the TEMPL, CHECK and MASEM files; prints checks and stubs; and automatically prints a management summary. (See Step 5 of PAYRL operating procedures.)	"END"
"TRIAL"	PREVENTS UPDATE OF MASEM, CHECK AND TEMPL The "TRIAL" command can be used in place of the "END" command, to allow a trial payroll run that prints check stubs only. If the run is satisfactory, "END" is then substituted for "TRIAL" and the PAYRL program is run again.	"TRIAL"

PAYRL COMMAND SEQUENCES

For each execution of the PAYRL program, from one to three sequences may be run. A sequence is a series of PAYRL commands, beginning with "SETUP" and ending with "END", "TRIAL" or another "SETUP" command (for the next sequence). The second command in any sequence indicates the type of sequence and must be one of the following: "HOURLY", "SALARY" or "SINGLE". The third command in a sequence containing "HOURLY" or "SALARY" can be either : "NOPAY", "TRIAL", "END" or the "SETUP" command for a subsequent sequence. The third command in a sequence containing "SINGLE" can be another "SINGLE", or "TRIAL", "END" or the "SETUP" command for a subsequent sequence. "SALARY" and "HOURLY" cannot appear in the same sequence.

Normally, input data for a PAYRL execution would be formatted as in the following example.

PAYRL SEQUENCE FORMAT

"HOURLY" Sequence	"SETUP",7,30,69,7,30,69;"A" "HOURLY" "NOPAY", 4073 "NOPAY", 47129
"SALARY" Sequence	"SETUP",7,30,69,7,30,69;"B","F" "SALARY" "NOPAY",2179
Special Sequence	"SETUP",7,30,69,7,30,69;"B" "SINGLE",4073,5,40,1,5 "SINGLE",2179,6,1037.57 "TRIAL"

PAYRL "SETUP" PARAMETERS

SETUP" parameters are entered in the following order:

"SETUP", period date, check date, "A", "B", "C", "D", "E", "F"

period date = enter the pay period ending date in the format: mm,dd,yy
check date = enter date to be printed on checks in the format: mm,dd,yy
"A" to "F" = deduction codes for the deductions to be taken for this pay period, if any. Amounts for these deductions are determined by parameters 22-27 of the EMPHN "ADD" Parameter Code table. The deduction codes can be entered in any order.

PAYRL "SINGLE" PARAMETERS

"SINGLE" parameters are determined from the following information.

"SINGLE", employee number, C1, Q1, C2, Q2, C3, Q3, C4, Q4

employee number = the number code assigned to the employee

C1 to C4 = up to four codes taken from the following list

Q1 to Q4 = up to four exception quantities (one for each C code).

Restrictions:

- a. Each code can be used only once per line.
- b. Code 4 and 5 cannot be used on the same line.
- c. Codes 6 and 8 cannot be used on the same line.

<u>Code</u>	<u>Definition</u>	<u>Example</u>
1	Pay the standard overtime rate for the employee as specified in MASEM for the number of hours entered.	1,30
2	Pay the first premium rate for the employee as specified in MASEM for the number of hours entered.	2,10
3	Pay the second premium rate for the employee as specified in MASEM for the number of hours entered.	3,10
4	Pay on the basis of the temporary rate entered for the number of hours specified in MASTE as being the normal work period (for hourly employees only).	4,8.095

PAYRL "SINGLE" PARAMETERS (cont.)

<u>Code</u>	<u>Definition</u>	<u>Example</u>
5	Pay the normal rate for the employee as specified in MASEM for the number of hours entered.	5,12
6	Pay the fixed amount of miscellaneous pay entered.	6,150.00
7	Deduct the fixed amount entered.	7,57.90
8	Pay the amount entered in the next position on a non-taxed basis (may be used for sick pay.)	8,107.05

PAYRL OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE TO THE PAYRL PROGRAM. Using a :JFILE directive, identify the input file containing the records and commands.	:JFILE,EMPIN
2	START PAYRL. Using a :PROG directive, start PAYRL.	:PROG,PAYRL
3	VERIFY THE PAYROLL "SETUP" PARAMETERS For each sequence in the payroll run, PAYRL types the following message: <pre> 'VERIFY SETUP' 'PAY PERIOD END DATA mm/dd/yy' 'CHECK DATE mm/dd/yy' 'DEDUCTIONS A _ _ _ _' 'OK TO CONTINUE (YES OR NO)'</pre> If the set up data is incorrect, type "NO", correct the data and start over at Step 1. If the data is correct, type "YES".	"NO" "YES"

NOTE: If a "TRIAL" payroll run, plain form paper can be placed in the printer. If the run is not a "TRIAL," checks should be placed in the printer before the program is executed.

PAYRL OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>																											
4	After Step 3 is completed, the checks are printed. When all checks for each sequence have been printed, the following management summary is printed by PAYRL <table><tr><td>'EMPLOYEES PAID</td><td>#</td><td>_____</td></tr><tr><td>'FICA WITHHELD</td><td>\$</td><td>_____</td></tr><tr><td>'GROSS WAGES</td><td>\$</td><td>_____</td></tr><tr><td>'FWT</td><td>\$</td><td>_____</td></tr><tr><td>'SWT</td><td>\$</td><td>_____</td></tr><tr><td>'LOCAL TAX</td><td>\$</td><td>_____</td></tr><tr><td>'UNEMPLOYMENT</td><td>\$</td><td>_____</td></tr><tr><td>'MISC DEDUCTIONS</td><td>\$</td><td>_____</td></tr><tr><td>'NET WAGES PAID</td><td>\$</td><td>_____</td></tr></table>	'EMPLOYEES PAID	#	_____	'FICA WITHHELD	\$	_____	'GROSS WAGES	\$	_____	'FWT	\$	_____	'SWT	\$	_____	'LOCAL TAX	\$	_____	'UNEMPLOYMENT	\$	_____	'MISC DEDUCTIONS	\$	_____	'NET WAGES PAID	\$	_____	
'EMPLOYEES PAID	#	_____																											
'FICA WITHHELD	\$	_____																											
'GROSS WAGES	\$	_____																											
'FWT	\$	_____																											
'SWT	\$	_____																											
'LOCAL TAX	\$	_____																											
'UNEMPLOYMENT	\$	_____																											
'MISC DEDUCTIONS	\$	_____																											
'NET WAGES PAID	\$	_____																											
5	PAYRL TERMINATES. When the "END" command is recognized, PAYRL terminates. The following message is typed: PAYRL : STOP 0000	"END"																											

PAYRL ERROR DIAGNOSTICS

The following error diagnostics could occur during PAYRL processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

INVALID

ERROR, EMPLOYEE #XXXXXX NET LESS THAN ZERO-NO ACTION

ERROR IN NEXT LINE: INVALID CODE COMBINATION

ERROR IN NEXT LINE: INVALID COMMAND

ERROR IN NEXT LINE: MISPLACED COMMAND

ERROR IN NEXT LINE: MISSING COMMAND

ERROR IN NEXT LINE: TOO MANY SEQUENCES

ERROR IN NEXT LINE: EMPLOYEE NOT IN DIRECTORY

ERROR IN NEXT LINE: INVALID OR MISSING CODE

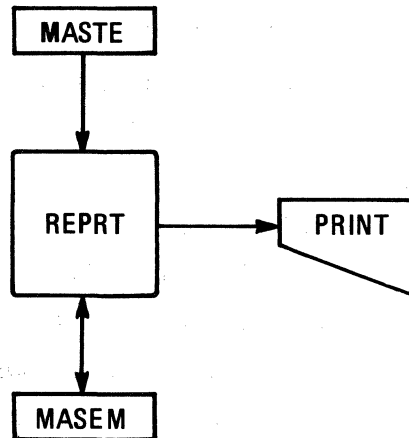
ERROR IN NEXT LINE: CODE INVALID FOR SALARIED EMPLOYEE

ERROR IN NEXT LINE: EMPLOYEE IN WRONG SEQUENCE

ERROR IN NEXT LINE: INVALID PARAMETER

REPRT

The REPRT program generates reports used to prepare federal tax form 941 and employee W-2 forms, and clears quarter-to-date and year-to-date information from the employee master file (MASEM).



PREREQUISITES

The MASEM file must have been updated by the PAYRL program. See the SETP2 and PAYRL program instructions.

REPRT PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Examples</u>
"941"	PREPARES REPORT FOR QUARTERLY 941 FORM Enter the command, followed by the date of the last day in the quarter. When this command is entered, REPRT generates a list of employees, including their social security numbers, names, gross and FICA wages for the last quarter.	"941",3,31,7
"GTELQ"	UPDATES GROSS THROUGH END OF LAST QUARTER When this command is entered, REPRT sets each employee's gross earnings through the end of the last quarter (in MASEM) equal to their year-to-date gross. <i>NOTE: This command should be entered some-time <u>after</u> the "941" command.</i>	"GTELQ"
"FTELQ"	UPDATES FEDERAL TAX THROUGH END OF LAST QUARTER When this command is entered, REPRT sets each employee's federal tax withheld through the end of the last quarter (in MASEM) to the YTD federal tax withheld. <i>NOTE: This command should be entered some-time <u>after</u> the "941" command.</i>	"FTELQ"
"W2"	PREPARES REPORT FOR YEAR-END W-2 FORMS When this command is entered, the REPRT program generates the W-2 reports for all employees.	"W2"

REPRT PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"END"	ENDS THE REPRT PROGRAM When the "END" command is entered, REPRT closes all files and terminates.	"END"
"YTD"	CLEARs ALL YTD QUANTITIES When this command is entered, REPRT sets all YTD and quarter totals fields in each MASEM employee record to zero.	"YTD"

*NOTE: This command should be entered some-
time after the "W2" command.*

REPT OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE TO THE PROGRAM Using the :JFILE directive, identify the input file to REPT (if a disc input file is used).	:JFILE,IN
2	START THE REPT PROGRAM Using a :PROG directive, start REPT. After REPT is started, the following request is printed (unless a disc input file is used): 'ENTER COMMAND'	:PROG,REP
3	DETERMINE ORDER OF COMMANDS If a quarterly 941 report is to be prepared, type the following order of commands: "941", "GTELQ", "FTELQ"; if the year-end W-2 report is to be prepared, type the following order of commands: "W2", "YTD".	"941",3,31,7 (report i printed) "GTELQ" "FTELQ" "END"
4	"941" PROCEDURE Type "941" after Step 2 request. The following message is typed: 'LOAD FORMS AND CLEAR PAUSE' REPT, SUSP Set up required forms in output device and type the :GO directive to clear and pause. REPT prints the 941 report and returns to 2.	"941" :GO

REPRT OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
5	"GTELQ" PROCEDURE Type "GTELQ" after Step 2 request. The following message is typed: 'UPDATE GROSS THROUGH END OF LAST QUARTER?' REPRT,SUSP Type the :GO directive to update the fields, or type :OFF to stop the program. If : GO is typed,the fields are updated and REPRT returns to Step 2. Otherwise, REPRT is terminated.	"GTELQ" :GO :OFF
6	"FTELQ" PROCEDURE Type "FTELQ" after Step 2 request. The following message is typed: 'UPDATE FED TAX THROUGH END OF LAST QUARTER?' REPRT,SUSP Type the :GO directive to clear the pause or type :OFF to stop the program. If :GO is typed, the fields are updated, and REPRT returns to Step 2. Otherwise, REPRT is terminated	"FTELQ" :GO :OFF
7	"W2" PROCEDURE Type "W2" after Step 2 request. The following message is typed: 'LOAD FORMS AND CLEAR PAUSE' PAYRL,SUSP Set up required forms in output device and type the :GO directive to clear the pause. REPRT prints the W-2 report and returns to Step 2.	"W2" :GO

REPRT OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
8	"YTD" PROCEDURE Type "YTD" after Step 2 request. The following message is typed: 'ZERO ALL YTD AND GTLQ TOTALS?' REPRT,SUSP Type the :GO directive to clear the pause or type :OFF to stop the program: If :GO is typed, the fields are updated and REPRT returns to Step 2. Otherwise, REPRT is terminated.	"YTD" :GO :OFF
9	"END" PROCEDURE Type "END" after Step 2 request. The following message is typed: REPRT : STOP 0000	"END"

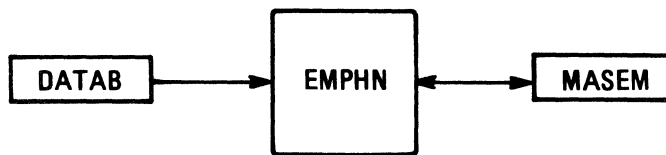
REPRT ERROR DIAGNOSTICS

The following error diagnostic could occur during REPRT processing; it is typed on the system teleprinter. For a discussion of system error diagnostic messages see Section VI.

ERROR IN NEXT LINE: INVALID COMMAND

EMPHN

The EMPHN program edits the master employee file (MASEM) by processing an input file containing changes to employee records and EMPHN program commands.



PREREQUISITES

An input file (DATAB) of EMPHN commands and employee records must be created and set up for processing unless commands and data are entered directly from the system teleprinter. See the EMPHN Program Commands and Section V for instructions.

EMPHN PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Examples</u>
"ADD"	ADDS AN EMPLOYEE RECORD TO MASEM Parameters are used to enter items in the employee's record. If any parameter is not entered, its field in the MASEM employee record is set to blanks (if characters), or to zero (numbers). See the EMPHN "ADD" Parameter Code table for parameters used.	"ADD",123456 (followed by parameter list)
"DISPLY"	PRINTS AN EMPLOYEE RECORD FROM MASEM Enter the command, followed by the employee's number.	"DISPLY",123456
"CHANGE"	REPLACES A MASEM RECORD ITEM Enter the command, the employee number and the values of the items to be changed. Use the parameter codes and field sizes specified in the code list.	"CHANGE",123456 (followed by parameter list)
"DELETE"	DELETES AN EMPLOYEE RECORD FROM MASEM The employee's record is printed, followed by the EMPHN request: "TYPE "YES" IF OK TO DELETE THIS EMPLOYEE' Operator responds "YES" to delete the employee record from MASEM, or "NO" to cancel the request.	"DELETE",123456 "YES" "NO"
"START"	PLACES AN INACTIVE EMPLOYEE IN AN ACTIVE STATUS Enter the command followed by the employee's number.	"START",123456

EMPHN PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Examples</u>
"STOP"	PLACES AN ACTIVE EMPLOYEE IN AN INACTIVE STATUS Enter the command, followed by employee's number.	"STOP",123456
"END"	ENDS THE INPUT FILE COMMANDS AND DATA When "END" is recognized, EMPHN closes the files and terminates.	"END"

EMPHN "ADD" PARAMETER CODES

<u>Code</u>	<u>Meaning</u>	<u>Example</u>								
1	EMPLOYEE NUMBER A maximum of six digits. (Not necessary unless employee number is being changed by a "CHANGE" command.)	1,123456								
2	HOURLY OR SALARIED EMPLOYEE Enter H for hourly; S for salaried.	2,"H" 2,"S"								
3	ACTIVE OR INACTIVE EMPLOYEE Enter * for active, a blank for inactive.	3,"*" 3," "								
4	DEDUCTION CODE FOR EXEMPTIONS Enter a number from 1-99, as determined from this table: <table><tr><td><u>Number is</u></td><td><u>Basis of Deduction</u></td></tr><tr><td>50 + n</td><td>Married; with n dependents</td></tr><tr><td>70 + n</td><td>Single; with n dependents</td></tr><tr><td>0 to 49</td><td>Straight % of gross earnings</td></tr></table>	<u>Number is</u>	<u>Basis of Deduction</u>	50 + n	Married; with n dependents	70 + n	Single; with n dependents	0 to 49	Straight % of gross earnings	4,53 4,73 4,35
<u>Number is</u>	<u>Basis of Deduction</u>									
50 + n	Married; with n dependents									
70 + n	Single; with n dependents									
0 to 49	Straight % of gross earnings									
6	EMPLOYEE NAME A maximum of 18 characters	6,"A.C. SMITH" 6,"SMITH, A.C."								
7	PAY RATE Enter pay period gross for salaried employee. Enter hourly rate for hourly employee (can be in mils).	7,800.00 7,9.025								
8	SOCIAL SECURITY NUMBER The digits must be entered as nnn,nn,nnnn.	8,024,45,1234 8,123,31,4567								
11	EMPLOYEE OVERTIME RATE Enter overtime rate (per hour).	11,13.05								

EMPHN "ADD" Parameter Codes (cont.)

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
12	FIRST PREMIUM RATE Enter list premium rate (per hour)	12,2.25
13	SECOND PREMIUM RATE Enter second premium rate (per hour)	13,3.25
14	YTD TOTAL FOR FICA TAX Enter total FICA tax withheld to date.	14,246.23
15	YTD GROSS EARNINGS Enter employee's total earnings to date.	15,8612.48
16	YTD TOTAL FOR FEDERAL TAX Enter employee's total withholding to date.	16,932.50
17	YTD TOTAL FOR STATE TAX Enter total state tax withheld to date.	17,128.25
18	YTD TOTAL FOR LOCAL TAX Enter total local tax withheld to date.	18,76.10
19	YTD UNEMPLOYMENT INSURANCE Enter total unemployment insurance withheld to date.	19,32.50
20	FEDERAL TAX THROUGH END OF LAST QUARTER Enter total withholding through end of last quarter.	20,641.50
21	GROSS EARNINGS THROUGH END OF LAST QUARTER Enter total earnings through end of last quarter.	21,6121.90

EMPHN "ADD" Parameter Codes (cont.)

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
22	MISCELLANEOUS DEDUCATION "A" Enter amount to be deducted each pay period for miscellaneous deduction "A".	22,21.00
23	MISCELLANEOUS DEDUCATION "B" Enter amount to be deducted each time this deduction is required.	23,6.00
24	MISCELLANEOUS DEDUCATION "C" Enter amount to be deducted each time this deduction is required.	24,5.50
25	MISCELLANEOUS DEDUCATION "D" Enter amount to be deducted each time this deduction is required.	25,4.75
26	MISCELLANEOUS DEDUCATION "E" Enter amount to be deducted each time this deduction is required.	26,2.12
27	MISCELLANEOUS DEDUCATION "F" Enter amount to be deducted each time this deduction is required.	27,2.13
28	YTD TOTAL FOR MISCELLANEOUS DEDUCATION "A"	28,221.00
29	YTD TOTAL FOR MISCELLANEOUS DEDUCATION "B"	29,60.00
30	YTD TOTAL FOR MISCELLANEOUS DEDUCATION "C"	30,55.00
31	YTD TOTAL FOR MISCELLANEOUS DEDUCATION "D"	31,47.50

EMPHN "ADD" Parameter Codes (cont.)

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
32	YTD TOTAL FOR MISCELLANEOUS DEDUCTION "E"	32,21.20
33	YTD TOTAL FOR MISCELLANEOUS DEDUCTION "F"	33,21.30
34	DATE LAST PAID Enter the month, day and year in this format: mm,dd,yy	34,11,30,70
37	YTD TOTAL, NON-TAXABLE PAY Enter the total non-taxable pay received this year.	37,211.50
38	EMPLOYEE'S DEPARTMENT CODE A maximum of six characters.	38,"ABC123"

39

ADDR

40

CITY, ST, ZIP

EMPHN OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE TO THE EMPHN PROGRAM Using a :JFILE directive, identify the input file containing the records and commands. (If a disc input file is used.)	:JFILE,DATAB
2	START EMPHN. Using the :PROG directive, start EMPHN.	:PROG,EMPHN,6,2,1
3	EMPHN PROCESSES THE INPUT FILE AND UPDATES MASEM. When EMPHN has finished, the following messages is typed: EMPHN : STOP 0000	

EMPHN ERROR DIAGNOSTICS

The following error diagnostics could occur during EMPHN processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

INVALID COMMAND

EMPLOYEE NO. xxxxxx NOT ON DISC

INVALID

EMPLOYEE NO. xxxxxx NOT ADDED, DISC FILE FULL

ERROR IN NEXT LINE: INVALID PARAMETER CODE

ERROR IN NEXT LINE: DUPLICATE EMPLOYEE NUMBER

ERROR IN NEXT LINE: CONFLICTING EMPLOYEE NUMBER

ERROR IN NEXT LINE: INVALID PARAMETER VALUE

SAMPLE REPORTS: PAYROLL

Following are samples of reports printed by Payroll programs. Each report is preceded by the name of the program and the commands (if any) that were used to produce the report.

PAYRL

CHECK AND STUB

EMPLOYEE 30001 NUMBER	DATE 10 31 69 MO DY YR	CHECK 4871 NUMBER	PAY EXACTLY \$ 88 57 DOLLARS CENTS
PAY TO THE ORDER OF <u>GREGORY ROBERTS</u>			
_____ AUTHORIZED SIGNATURE			

EMPLOYEE NUMBER	EMPLOYEE NAME
30001	GREGORY ROBERTS

RATES					HOURS				TOTAL	
REGULAR	OVERTIME	SHIFT 1	SHIFT 2	MISC.	REGULAR	OVERTIME	SHIFT 1	SHIFT 2	GROSS	NET
3.55	0.00	0.00	0.00	0.00	40.0	0.0	0.0	0.0	142.00	88.57

CURRENT						YEAR TO DATE				
F.I.C.A.	FWT	SWT	LOCAL	UNEMPLOYMENT	MISC.	F.I.C.A.	GROSS	FWT	SWT	
6.81	23.90	3.46	0.00	4.26	15.00	27.24	568.00	95.60	13.84	

YEAR TO DATE CONTINUED			PERIOD	CHECK	
LOCAL	UNEMPLOYMENT	MISC.	ENDING	NUMBER	
0.00	17.04	60.00	10/30/69	4871	

REPT

"941",3,31,71

FORM 941a (Rev. July 1967)
U.S. Treasury Department
Internal Revenue Service

CONTINUATION SHEET FOR SCHEDULE A OF FORMS 941, 941-M, 941SS, OR 943
REPORT OF WAGES TAXABLE UNDER THE FEDERAL INSURANCE CONTRIBUTIONS ACT

© v

PACKARD HYDRAULICS
11000 WOLFE ROAD
CUPERTINO CALIF 95014

Date
Quarter
Ended 3/31/71

Page
Number 1

If this form is used as a continuation
sheet for Form 943, Employer's An-
nual Tax Return for Agricultural
Employees, please check here. ☐

SEE INSTRUCTIONS IN PUBLICATION NO. 393
Attach **only** original continuation sheets to your tax return. Do not
send a carbon copy to the **Internal Revenue Service**.

Type or print in this space employer's identification number, name, and address
exactly as shown on the return.

EMPLOYEE'S SOCIAL SECURITY ACCOUNT NUMBER (If number is unknown, see Circular E.)			NAME OF EMPLOYEE (Please type or print)	TAXABLE F.I.C.A. WAGES Paid to employee in Quarter (Before Deductions)		TOTAL STATE WAGES PAID THIS QUARTER
000	00	0000		▼ Dollars	Cents	
498	15	9191	GREGORY ROBERTS	4412.00		4412. 00
171	34	5500	JIM COKES	3000.00		3000. 00
111	45	5648	AL NELSON	800.00		800. 00
523	46	5012	ELMER JACKSON	900.00		900. 00
177	56	1479	BOB DIAZ	1700.00		1700. 00
145	56	6455	BILL BAGGSTON	800.00		800. 00
781	24	1111	WILLIAM SHIELD	3500.00		3500. 00
155	46	5678	BOBBY RAYMOND	5300.00		5300. 00
171	65	8765	ROBERT SMITH	1800.00		1800. 00
TOTALS FOR THIS PAGE— Number of employees and taxable wages.			9	\$	22212.00	

STATE

94-0743750

REPR

"W2"

FEDERAL IDENTIFICATION NUMBER STATE IDENTIFICATION NUMBER

PACKARD HYDRAULICS
11000 WOLFE RD.
CUPERTINO CALIF 94014

WAGE AND TAX STATEMENT Copy A - For Internal Revenue Service

1970

- 1 Includes tips reported by employee. Amount is before payroll deductions or sick pay exclusion.
- 2 Report salary or other employee compensation which was not subject to withholding. See Circular E.
- 3 One-eighth of this amount was withheld to finance the cost of Hospital Insurance Benefits. The remainder is for old-age, survivors, and disability insurance.
- 4 Includes tips reported by employee.

UNCOLLECTED EMPLOYEE
TAX ON TIPS

print EMPLOYER'S identification number, name, and address (including Zip Code) above.
print EMPLOYEE'S social security number, name and address (including Zip Code) below.

498-15-9191 GREGORY ROBERTS

1st LINE - NAME OF STATE (OR CITY) 2nd LINE - STATE (OR CITY) FORM NO.		†	NO. OF DEPENDENTS	EMPLOYEE NUMBER
		M	2	54321
CITY OR LOCAL TAX	STATE, CITY OR LOCAL GROSS IF DIFFERENT THAN FEDERAL GROSS	STATE INCOME TAX WITHHELD		
0 00		0 00		
FEDERAL INCOME TAX INFORMATION			SOCIAL SECURITY INFORMATION	
FEDERAL INCOME TAX WITHHELD	WAGES PAID SUBJECT TO WITHHOLDING IN 1970 ¹	OTHER COMPENSATION PAID IN 1970 ²	F.I.C.A. EMPLOYEE TAX WITHHELD ³	TOTAL F.I.C.A. WAGES PAID IN 1970 ⁴
1327 49	7412 00	0 00	374 40	7400 00

RM W-2-U.S. Treasury Department, Internal Revenue Service

EMPLOYER: See instructions on back of copy D.

*See Circ. E. for sick pay reporting.
† 1 or S = Single 2 or M = Married

EMPHN

"DISPLY",204

EMP.#	KEY	NAME	EXMP	SS NO.	LAST DATE PAID		
204	H*	BOB DELL	19	374-42-6714	0/ 0/ 0		
PAY RATE	O/T RATE	P.RATE#1	P.RATE#2	DEPT CODE	YTD NON-TAX		
2.820	5.640	6.270	7.630		.00		
MISC DED	A	B	C	D	E	F	
	5.00	7.50	10.00	12.50	15.00	25.00	
YTD MISC DED	A	B	C	D	E	F	
	.00	.00	.00	.00	.00	.00	
YTD FICA	GROSS	F.W/T	S.W/T	L.W/T	UNEMP	FTELQ	GTELQ
.00	.00	.00	.00	.00	.00	.00	.00

SECTION IV

PROCESSING FINANCIAL STATEMENTS

This section contains instructions for processing the following programs:

LEDGR, which can print consolidated and departmentalized ledgers, print trial ledgers for balancing and enter financial data into the master ledger files.

DISBR, which can print disbursement vouchers and current or year-to-date trial balances of journal entries, provide for adjustments to ledgers and enter journal data into the master ledger files and interim files.

PANDD, which can print consolidated and departmentalized profit and loss statements.

BALAN, which can print consolidated and departmentalized balance sheets.

CHEKH, which can print all check account debits and credits, print check account summaries and enter check information into the master parameter file.

LEDHN, which can edit and print records from the master ledger files.

PREREQUISITES

Before Financial Statements can be processed, the following processes must have occurred. See the CONVERSION GUIDE for instructions.

The MASTE file must have been created and built by the SETP1 program to include Financial Statements parameters.

The MASLE, TEMPL, CHECK, PLFIL and department master ledger files must have been created by the SETP2 program.

The MASLE and department Master ledger files must have been built by the LEDHN program to include all year-to-date ledger records.

NORMAL JOB PROCESSING

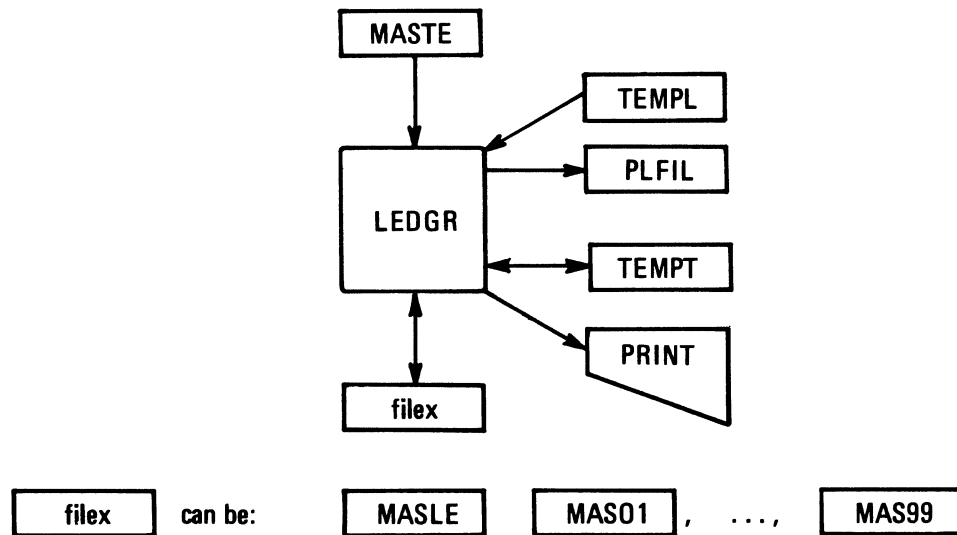
Normal job processing for Financial Statements would include:

1. Building, editing and storing any required input files separately for the job(s) in which they are executed (unless these files are entered through the system teleprinter).
2. Making any required changes to MASLE and any affected department master ledger, before executing any job that processes master ledger records.
3. Executing DISBR before executing BALAN to insure that balance sheet data is current and in balance.
4. Executing LEDGR before executing PANDD to insure that profit and loss data is current and in balance.
5. Executing required programs from other subsystems before executing CHEKH to insure that the check file is complete for the current period.
6. Purging any input file after it is used.

NOTE: When the LEDGR and LEDHN programs perform core sorts (see their descriptions), the operating system takes the entire system disc work area for the sorting process. The work area becomes a file with the name PN0000. This temporary file is automatically purged at the end of a job.

LEDGR

The LEDGR program updates the MASLE file and user-specified departmentalized ledger files while verifying balancing entries in the TEMPL file, preparing an output file (PLFIL) to be used by the PANDD program and printing current-period ledgers. LEDGR can also be used to generate trial balances of TEMPL prior to an actual update of MASLE and departmentalized ledger files.



NOTE: There is but one LEDGR program command, "END", which can be used to stop LEDGR processing when department ledgers are defined. The command is entered at the system teleprinter. See the LEDGR operating procedures.

TEMPT is a temporary file created by the LEDGR program when it processes TEMPL records. LEDGR first writes every TEMPL account number entry onto the TEMPT file. Then LEDGR sorts these entries (in core) into ascending sequence and writes them onto TEMPT. Finally, LEDGR uses the TEMPT entries to provide direct access to the TEMPL records it processes to print consolidated and departmentalized ledgers and update the master ledger files. After LEDGR has completed processing, it automatically purges the TEMPT file.

Since the TEMPL journal entries are sorted in core, the maximum number of current-period TEMPL entries is 2100 (for a 16K system with a user area beginning at 14000₈). If more core memory is available, additional journal entries can be used.

LEDGR OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Examples</u>
1	START THE LEDGER PROGRAM Using the :PROG directive, start LEDGR.	:PROG,LEDGR
2	ENTER DATA FOR LEDGERS When LEDGR types the following request: 'ENTER DATE: MO,DA,YR' Type the date to appear on the printed ledger(s), in the form: mm,dd,yy.	01,31,71
3	DETERMINE IF TRIAL RUN OR ACTUAL UPDATE LEDGR types the following request: 'TRIAL RUN?' Type "YES" to start a trial run, type "NO" to start an actual update run. LEDGR then computes the balance of TEMPL and types the following message: 'TRIAL BALANCE OF FILE TEMPL IS \$nnn.nn'	"YES" "NO"
4	ACTUAL UPDATE: TEMPL BALANCE NOT ZERO If the Step 3 entry was "NO" and the TEMPL balance was not equal to zero, LEDGR terminates. The following messages are typed: 'LEDGR RUN TERMINATED, BALANCE FILE TEMPL' LEDGR : STOP 0000	

LEDGR OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Examples</u>
5	ACTUAL UPDATE: TEMPL BALANCE IS ZERO If the Step 3 entry was "NO" and the TEMPL balance was equal to zero, LEDGR sorts the TEMPL file and types the following message: 'LEDGR PROCESSING IN SORTING PHASE' Then the master ledger is printed, the MASLE file is updated and the PLFIL output file generated. Then the following message is typed: 'RESET FILE TEMPL FOR NEXT PERIOD?' Type "YES" to reset the TEMPL file, or type "NO" to retain the present contents of the file. If no departmentalized ledgers are defined, LEDGR terminates. The following message is typed: LEDGR : STOP 0000	"YES" "NO"
6	ACTUAL UPDATE: DEPARTMENTALIZED LEDGERS LEDGR types the following message if departmentalized ledgers are defined: 'ENTER DEPARTMENT CODE' Type a valid department code to get an update of the department ledger and a balanced department ledger printed, or type "END" to terminate LEDGR.	"A001" "END"

LEDGR OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Examples</u>
7	TRIAL RUN: MASTER LEDGER If the Step 3 entry was "YES" (indicating a trial run), LEDGR types the following messages: 'TRIAL BALANCE OF FILE TEMPL IS \$nnn.nn' 'LEDGR PROCESSING IN SORTING PHASE' and prints the trial master ledger. If there are no departmentalized ledgers defined, LEDGR terminates after the master ledger is printed. If departmentalized ledgers are defined, Step 8 is done.	
8	TRIAL RUN: DEPARTMENTALIZED LEDGERS If departmentalized ledgers are defined, the following message is typed: 'ENTER DEPARTMENT CODE' Type a valid department code to get a trial ledger printed for that department, or type "END" to terminate the LEDGR program.	"A001" "END"

NOTE: No files are updated during a "TRIAL" run.

LEDGR ERROR DIAGNOSTICS

The following error diagnostic messages could occur during LEDGR processing. They are typed on the system teleprinter. See Section VI for a discussion of system error diagnostic messages.

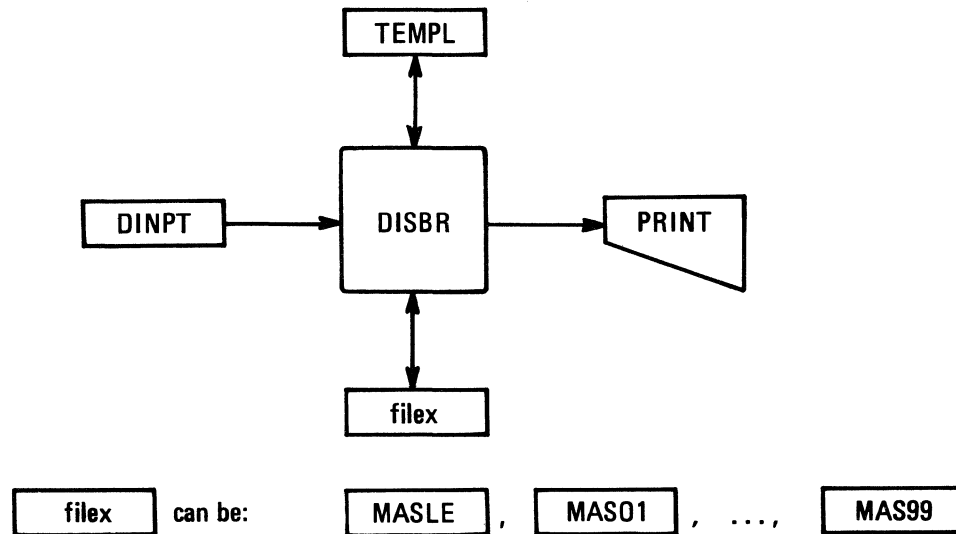
LEDGR RUN TERMINATED, BALANCE FILE TEMPL

LEDGR RUN TERMINATED, NO. OF TEMPL ENTRIES TOO LARGE

ILLEGAL DEPARTMENT CODE

DISBR

The DISBR program updates the TEMPL file by processing an input file (DINPT) of current period journal entries and DISBR program commands entered through the system teleprinter. DISBR adds journal entries to TEMPL, prints records of each TEMPL journal entry that can be used as disbursement vouchers; verifies ledger account numbers and department codes in file TEMPL; and performs trial and actual balances of journal entries in the input file (DINPT), the TEMPL file and the master ledger files.



DISBR PROGRAM COMMANDS

DISBR program commands are entered through the system teleprinter; they are not included in the input file (DINPT), which contains only journal entries.

<u>Command</u>	<u>Function</u>	<u>Example</u>
"CHECKD"	CHECKS INPUT FILE (DINPT) FOR ERRORS Type this command to check the input file for format and parameter errors. If any error or imbalance occurs, it is printed. Use "CHECKD" before using "CREATT".	"CHECKD"
"CREATT"	CREATES JOURNAL ENTRIES IN THE TEMPL FILE Type this command to process the journal transactions stored in the input file (DINPT). The TEMPL file is updated and a disbursement voucher record is printed for each journal transaction in DINPT (Journal entries are discussed on the following page).	"CREATT"
"CHECKT"	PERFORMS A TRIAL BALANCE OF THE TEMPL FILE Type this command to get a trial balance of the TEMPL file.	"CHECKT"
"CHECKM"	PERFORMS A TRIAL BALANCE FOR THE MASLE FILE Type this command to get a trial balance of the MASLE file.	"CHECKM"
"CHECKL"	PERFORMS A TRIAL BALANCE OF A DEPARTMENT LEDGER Type this command to get a trial balance of a department ledger file. The result is printed after the operator types a department code.	"CHECKL" "A001"

DISBR PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"VERIF"	CHECKS TEMPL ACCOUNT NUMBERS AGAINST THOSE IN MASLE Type this command to check all account numbers in TEMPL against those currently in MASLE. The depart- ment codes in TEMPL are verified; account numbers are verified for appropriate department ledger files.	"VERIF"
"END"	TERMINATES THE DISBR PROGRAM	"END"

JOURNAL ENTRIES

Current period journal entries are entered into an input file (DINPT) for process by the DISBR program. Two sets of parameters are required for each group of journal entries.

- Code 1. These entries contain a user-specified reference code followed by the ledger account number(s) and amount(s) of journal transactions and balancing entries.
- Code 2. These entries contain the account description and the department code for the journal transaction described in the Type 1 entry.

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
1	USER REFERENCE CODE AND JOURNAL TRANSACTION Enter the parameters in the following order: 1, "reference", account #, Account amount... "reference" = a maximum of six characters (any user-specified code for user reference) account # = a maximum of eight digits account amount = a maximum of 11 digits (a maximum of ten accounts may be so entered)	1,"4056", 210,450.00, 210,50.00, 360,-450.00, 362,-25.00, 365,-25.00
2	JOURNAL TRANSACTION DESCRIPTION AND DEPARTMENT CODE Enter the parameters in the following order: 2, "description", "department code" "description" = a maximum of 18 characters "department code" = a maximum of six characters (optional, if departments used)	2,"2116 PROGS" "123ABC"

Summary of Examples

1,"4056",210,450.00,210,50.00,360,-450.00,363,-25.00,365,-25.00

2,"2116 PROGS","123ABC"

(

4-12

DISBR OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
5	TO PROCESS THE INPUT FILE To process DINPT, first enter "CHECKD" to verify DINPT, then enter the "CREATT" command. DISBR requests the current date: 'ENTER DATE: MO,DA,YR' Type the date in the form mm,dd,yy. DISBR then updates TEMPL with the DINPT entries and prints a record of each DINPT journal entry (for use as disbursement vouchers). When it finishes processing DINPT, DISBR prints the following summary: SUMMARY OF DISBURSEMENT PROCESSING NUMBER OF INPUT TRANSACTIONS: nnnnn JOURNAL ENTRIES WRITTEN TO "TEMPL" ARE RECORDS nnn TO nnn TOTAL BALANCE OF ENTRIES IS \$ nnn.nn and types the following message: 'CREATT' PROCESSING COMPLETE, SUMMARY ON PRINTER and returns to Step 3.	"CHECKD" "CREATT" 01,31,71
6	PROCEDURES TO VERIFY LEDGER ACCOUNT NUMBERS IN TEMPL "VERIF" At the Step 3 request, type "VERIF". DISBR then checks ledger account numbers in the TEMPL file against those in the MASLE file. If the TEMPL account numbers are not in MASLE, they are printed and DISBR returns to Step 3. For entries in TEMPL containing a department code (non-blank), the code is verified and the account number is verified as being in the appropriate department ledger.	

DISBR OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
7	END THE DISBR PROGRAM At the Step 3 request, type "END". The following message is typed:	"END"
	DISBR: STOP 0000	

DISBR ERROR DIAGNOSTICS

The following error diagnostic messages could occur during DISBR processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages see Section VI.

INVALID COMMAND

LINE nnnnn REF# nnnnnn IGNORED, EXCEEDS MAX
FOLLOWING DESCRIPTION IS OUT OF ORDER

(description)

LINE nnnn REF# nnnnnn NOT IN BALANCE BY \$ nnn.nn

MISSING DESCRIPTION STATEMENT AFTER LINE nnnnn

ILLEGAL IDENTIFIER CODE IN FOLLOWING STATEMENT

(statement)

ILLEGAL DEPARTMENT CODE

ACCT # IN TEMPL RECORD nnnnn NOT DEFINED IN MASTER LEDGR

(TEMPL RECORD)

DEPT. CODE IN TEMPL RECORD nnnnn NOT DEFINED

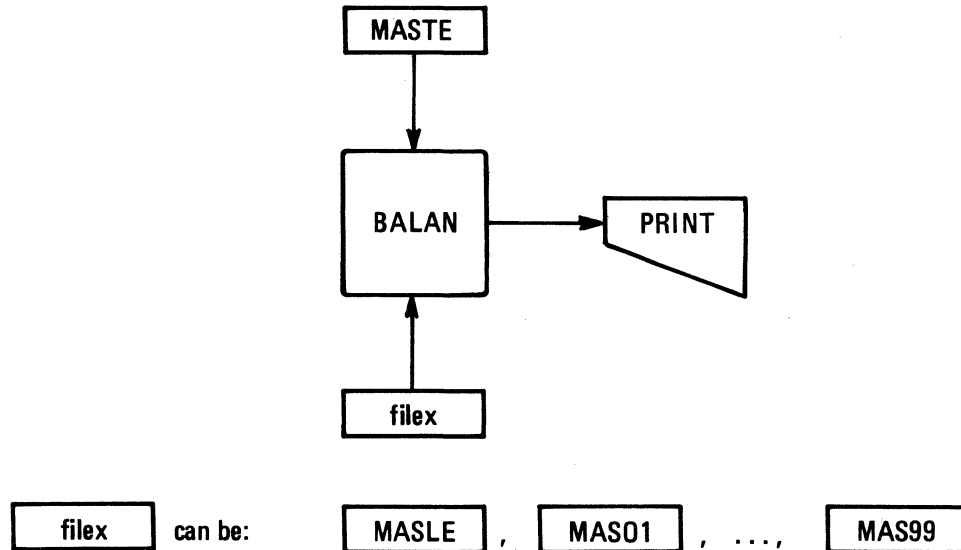
(TEMPL RECORD)

ACCT # IN TEMPL RECORD nnnnn NOT DEFINED IN DEPT. LEDGER

(TEMPL RECORD)

BALAN

The BALAN program prints consolidated and departmentalized balance sheets by processing information from the MASLE and departmentalized master ledger files.



NOTE: There is only one BALAN command: "END", which is typed at the system teleprinter to terminate the BALAN program if departmentalized ledgers are defined.

BALAN OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	START THE BALAN PROGRAM Using the :PROG directive, start BALAN.	:PROG,BALAN
2	ENTER THE DATE FOR THE BALANCE SHEET BALAN prints the following message: 'ENTER DATE: MO,DA,YR' Type the date, in this form: mm,dd,yy	01,31,71
3	CONSOLIDATED BALANCE SHEET PRINTED BALAN processes information from the MASLE file, and prints a consolidated balance sheet. Then the following message is typed (if no department ledgers are defined): BALAN : STOP 0000	
4	DEPARTMENTALIZED BALANCE SHEETS PRINTED If departmentalized ledgers are defined, BALAN types the following message: 'ENTER DEPARTMENT CODE' Type a department code to have BALAN print a balance sheet for that department; type "END" to terminate the program. If a department balance sheet is printed, BALAN returns to the beginning of Step 4 again. When "END" is typed the following message is typed: BALAN : STOP 0000	"A001" "END"

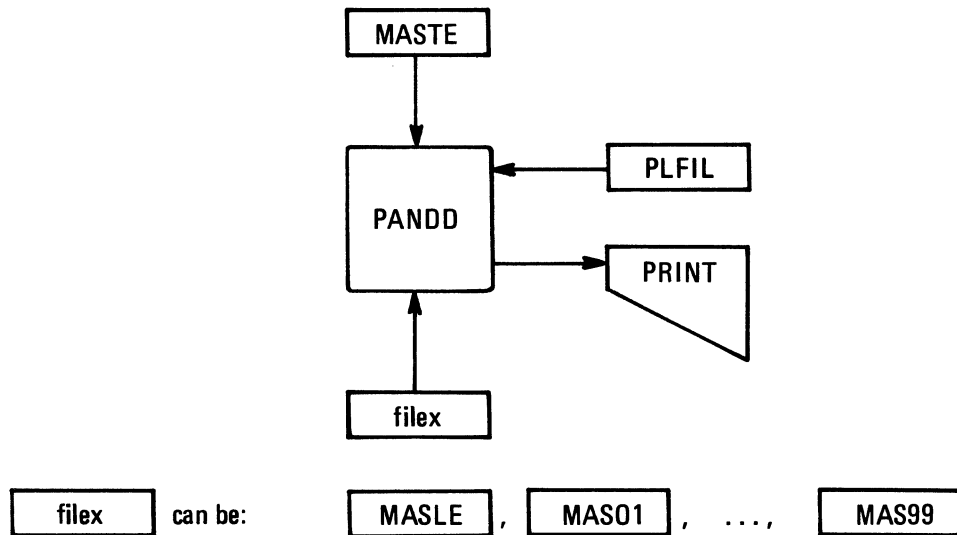
BALAN ERROR DIAGNOSTICS

The following error diagnostic message could occur during BALAN processing. It is typed on the system teleprinter. For a discussion of system error diagnostic messages, see Section VI.

ILLEGAL DEPARTMENT CODE

PANDD

The PANDD program prints consolidated and departmentalized profit and loss statements by processing an interim file (PLFIL) that has been previously set up by an execution of the LEDGR program.



NOTE: There is only one PANDD program command: "END" which is typed through the system teleprinter to terminate the PANDD program during the printing of departmentalized profit and loss statements. "END" does not have to be used if there are not departmentalized ledger files or if all departmentalized profit and loss statements are printed. (The end-of-file record on the PLFIL file automatically terminates the PANDD program when it is reached).

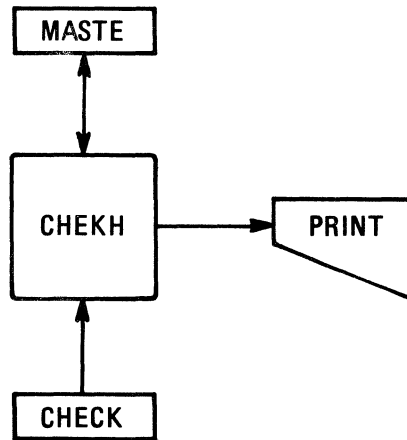
PANDD OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	START THE PANDD PROGRAM Using the :PROG directive, start PANDD.	:PROG,PANDD
2	TYPE THE DATE FOR THE PROFIT AND LOSS STATEMENT PANDD prints the following message: 'ENTER DATE: MO,DA,YR' Type the date, in this form: mm,dd,yy	01,31,71
3	CONSOLIDATED PROFIT AND LOSS STATEMENT PRINTED PANDD processes file PLFIL and prints a consolidated profit and loss statement. If an end-of-file is reached on PLFIL, the program terminates. Otherwise, Step 4 is executed.	
4	DEPARTMENT PROFIT AND LOSS STATEMENT PRINTED PANDD types the following message: 'P/L DATA FOR DEPARTMENT nnnnnn?' Type "YES" if a profit and loss statement for the department is to be printed; type "NO" (or any other entry) to have PANDD type a message for the next department; type "END" to terminate the program. Note that an end-of-file record on the PLFIL file will automatically terminate the program.	"YES" "NO" "END"

NOTE: No error diagnostic messages occur during PANDD processing. For a discussion of system error diagnostic messages see Section VI.

CHEKH

The CHEKH program updates the checking account information in the master parameter file (MASTE) and prints a list of all current checking account debits and credits by processing an interim file of check register information (CHECK) previously set up by the CUSAC, PAYIN and PAYRL programs.



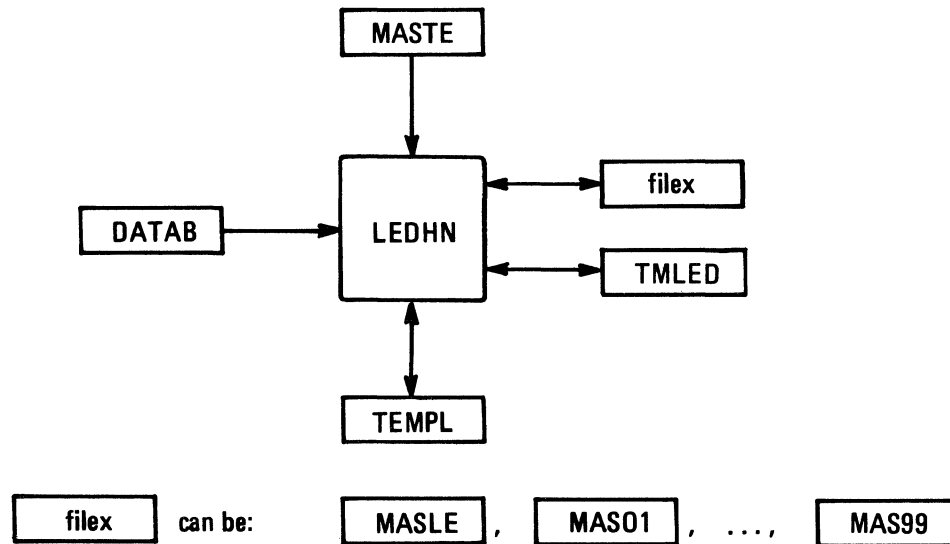
CHEKH OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	START THE CHEKH PROGRAM Using the :PROG directive, start CHEKH	:PROG,CHEKH
2	CHEKH PRINTS ALL CURRENT PERIOD CREDITS AND DEBITS After the credits and debits are printed and summarized, CHEKH types the following message: 'UPDATE BALANCE AND RESET FILE CHECK?' Type "YES" to have CHEKH update the MASTE file and clear the CHECK file; type "NO" (or any other entry) to prevent the update.	"YES" "NO"
3	CHEKH TERMINATES If "YES" was typed at Step 2, the following message is typed: 'UPDATE COMPLETED' CHEKH : STOP 0000 If "NO" was typed at Step 2, the following message is typed: CHEKH : STOP 0000	

*NOTE: No error diagnostic messages occur during CHEKH processing.
See Section VI for system error diagnostic messages.*

LEDHN

The LEDHN program edits a master ledger file (MASLE) and departmentalized master ledgers, if they are required, by processing an input file containing changes to ledger account records and LEDHN program commands. LEDHN can also edit file TEMPL



PREREQUISITES

A input file of LEDHN commands and general ledger account information must be created and set up for processing unless the data and commands are to be entered directly from the system teleprinter. See the LEDHN commands and Section V for instructions.

NOTE: TMLED is a temporary file created by the LEDHN program whenever it processes "CHANGE", "ADD" or "DELETE" commands for master or departmentalized ledgers. LEDHN copies the ledger file to TMLED, sorts the records into account number sequence and rewrites the new ledger file (and its directory) in the new sequence. When LEDHN completes processing, the TMLED file is automatically purged.

LEDHN PROGRAM COMMANDS

<u>Command</u>	<u>Function</u>	<u>Example</u>
"FILE"	NAMES THE MASTER FILE TO BE UPDATED Only one FILE command is used during a LEDHN run. FILE should be the first command in the input file, but can be omitted if the MASLE file is to be updated. (MASLE is the standard). <i>NOTE: For departmentalized ledgers, the parameter entered with the "FILE" command is the department code, not the name of the file.</i>	"FILE","MASLE" "FILE","A001" "FILE","TEMPL"
"ADD"	ADDS A LEDGER ACCOUNT TO THE MASTER FILE NAMED Every ledger account must be entered using this command. Parameters are used to enter account data. (See the LEDHN "ADD" parameter codes). If parameters are not entered, their fields are set to blanks (if characters) or to zero (if numbers). Note that the MASLE file must contain all account numbers contained in any department ledger.	"ADD",1001 2,1500.00 3,"PETTY CASH" 4,"2100"
"DISPLY"	PRINTS AN ACCOUNT RECORD FROM MASTER FILE NAMES The "FILE" command indicates the file; "DISPLY" indicates the account number.	"DISPLY",1001
"CHANGE"	REPLACES AN ACCOUNT ITEM WITH NEW DATA Enter the account number and items to be changed, with their new values. Do not exceed field size shown in ADD parameter codes.	"CHANGE",1001 2,2500.00 4,"ABC123" "CHANGE",1001 1,1005

LEDHN PROGRAM COMMANDS (cont.)

<u>Command</u>	<u>Function</u>	<u>Example</u>
"DELETE"	DELETES AN ACCOUNT FROM THE MASTER FILE The account record is displayed on the system teleprinter with a request to the operator: 'TYPE "YES" TO DELETE LEDGER NO. nn' To delete the record, the operator types "YES". To override the deletion, he types any other entry.	"DELETE",1005 "YES" "NO"
"END"	ENDS THE INPUT FILE COMMANDS AND DATA When END is recognized, LEDHN completes processing of the input file and constructs the named master file. The following message is printed on the system teleprinter: 'LEDGER UPDATE COMPLETED' LEDHN : STOP 0000 <i>NOTE: When using the "ADD", "DELETE", "CHANGE" or "DISPLY" commands for the TEMPL file, enter the TEMPL record numbers as parameters.</i>	"END"

LEDHN "ADD" PARAMETER CODES

<u>Code</u>	<u>Meaning</u>	<u>Example</u>
1	THE LEDGER ACCOUNT NUMBER A maximum of eight digits	"ADD",1001
2	THE YTD TOTALS FOR THE ACCOUNT NUMBER A maximum of eleven digits	2,1500.00 2,1500000000.00
3	THE ACCOUNT DESCRIPTION A maximum of 24 characters; must be bounded by quote marks.	3,"PETTY CASH" 3,"A2116 PROGRAMMING"
4	THE DEPARTMENT CODE NUMBER A maximum of six characters; must be bounded by quote marks. (Used for the TEMPL file only).	4,"ABCDEF" 4,"2100"
5	TEMPORARY LEDGER REFERENCE NUMBER A maximum of six characters; must be bounded by quote marks. (Used for the TEMPL file only).	5,"123456" 5,"ABC123"

NOTE: *The maximum number of MASLE account numbers is 1900 for a 16K DOS-M system.*

The maximum number of account numbers for each department ledger file is also 1900.

LEDHN OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	LINK THE INPUT FILE TO THE LEDHN PROGRAM Issue a :JFILE directive. This identifies the input file to be processed by LEDHN.	:JFILE,DATAB
2	START THE LEDHN PROGRAM Issue a :PROG directive to start LEDHN	:PROG,LEDHN
3	LEDHN PROCESSES THE INPUT FILE Processing proceeds according to the commands and data contained in the input file.	
4	LEDHN FINISHES PROCESSING The following message is printed on the system teleprinter: 'LEDGER UPDATE COMPLETED' LEDHN : STOP 0000	

NOTE: It is recommended that a copy of the master ledger file to be updated be made before running LEDHN to provide a back-up copy of the file.

LEDHN ERROR DIAGNOSTICS

The following error diagnostics could occur during LEDHN processing. They are typed on the system teleprinter. For a discussion of system error diagnostic messages see Section VI.

INVALID COMMAND

INVALID PARAMETER

ILLEGAL DEPARTMENT CODE

LEDGER ACCOUNT NUMBER NOT IN FILE

LEDGER ACCOUNT NUMBER ALREADY IN FILE

INVALID PARAMETER CODE

LEDGER FILE FULL, ACCOUNT nnnnnn NOT ENTERED

ACCOUNT NUMBER MISSING

ACCOUNT NUMBER nnnnnn NOT IN FILE MASLE

SAMPLE REPORTS: FINANCIAL STATEMENTS

Following are samples of reports printed by Financial Statements programs.

Each report is preceded by the name of the program and the commands (if any) that were used to produce the report.

CHEKH

CHECKING ACCOUNT		TEMP. BALANCE \$	422.62	PAGE	105
__DATE__	CHECK	__TRANSACTION__	CREDITS \$	DEBITS \$	BALANCE \$
3/12/71	Ø	ACCT. PAID 1001	53.12		475.74
		TOTALS	53.12	.00	475.74

CHECKING ACCOUNT	SUMMARY
OLD BALANCE \$	422.62
NEW BALANCE \$	475.74
NO. CREDITS	1 TOTALING \$ 53.12
NO. DEBITS	Ø TOTALING \$.00
TOTAL	1 TOTAL \$ 53.12

LEDHN

"DISPLY",1900

ACCOUNT NO.	YTD TOTAL	DESCRIPTION
1900	1250.00	GOODWILL

LEDGR

PACKARD HYDRAULICS
GENERAL LEDGER
DATE 4/15/71

PAGE 1

ACCOUNT REF.	CURRENT	YEAR TO DATE	ACCOUNT DESCRIPTION
1000		500.00	PETTY CASH
TOTALS	.00	500.00	
1001		.00	CASH SALES
TOTALS	.00	.00	
1002		7970.47	CASH IN BANK
TOTALS	.00	7970.47	
1100		1972.44	ACCOUNTS REC. TRADE
TOTALS	.00	1972.44	
1101		.00	ACCOUNTS REC. EMPYS.
TOTALS	.00	.00	
1102		212.48	ACCOUNTS REC. STOCK SUBS
TOTALS	.00	212.48	
1200		.00	NOTES REC. TRADE
TOTALS	.00	.00	
1201		.00	NOTES REC. OTHER
TOTALS	.00	.00	
1300		250.00	RESERVE FOR BAD DEBTS
TOTALS	.00	250.00	
1400		10747.15	INVENTORY
1400	482.93		PRODUCTS SOLD 41571
TOTALS	482.93	11230.08	
:			:

PACKARD HYDRAULICS
GENERAL LEDGER
DATE 4/15/71

PAGE 8

ACCOUNT REF.	CURRENT	YEAR TO DATE	ACCOUNT DESCRIPTION
TOTALS	.00	.00	
GRAND TOTAL		.00	

PANDD

PACKARD HYDRAULICS
INCOME STATEMENT
FOR THE PERIOD ENDED 4/15/71

AC NUM	ACCOUNT	CURRENT	% SALES	YEAR-TO-DATE	% SALES
INCOME					
4001	SALES INCOME	.00	.0	2485.58	100.0
	TOTAL	.00	.0	2485.58	100.0
DIRECT COST					
6010	INVENTORY COST	482.93	.0	900.59	36.2
	TOTAL	482.93	.0	900.59	36.2
	GROSS PROFIT	-482.93	-.0	1584.99	63.8
GENERAL EXPENSES					
7003	BANK SERVICE CHANGE	.00	.0	2.00	.1
7006	GAS AND ELECTRIC	.00	.0	76.25	3.1
7007	WATER	.00	.0	35.15	1.4
7010	JANITORIAL MAINTANCE	.00	.0	75.00	3.0
7015	RENT BUILDING	.00	.0	1000.00	40.2
7018	TELEPHONE	.00	.0	128.50	5.2
	TOTAL	.00	.0	1316.90	53.0
	NET PROFIT	-482.93	-.0	268.09	10.8

CURRENT PERIOD:

PROFIT (-LOSS) PER SHARE BASED ON
0 SHARES OUTSTANDING \$\$\$\$\$\$

YEAR TO DATE:

PROFIT (-LOSS) PER SHARE BASED ON
0 SHARES OUTSTANDING \$\$\$\$\$\$

BALAN

PACKARD HYDRAULICS
BALANCE SHEET 4/15/71

ASSETS

PETTY CASH	1000	500.00	
CASH IN BANK	1002	7970.47	
TOTAL			8470.47
ACCOUNTS REC. TRADE	1100	1972.44	
ACCOUNTS REC. STOCK SUBS	1102	212.48	
TOTAL			2184.92
RESERVE FOR BAD DEBTS	1300	250.00	
TOTAL			250.00
INVENTORY	1400	11230.08	
TOTAL			11230.08
PREPAID INTEREST	1601	150.00	
PREPAID POSTAGE	1602	50.00	
PREPAID SUPPLIES	1603	100.00	
TELEPHONE CO. DEPOSIT	1604	500.00	
TOTAL			800.00

TOTAL CURRENT ASSETS 22935.47

MAJOR EQUIPMENT	1702	5000.00	
OFFICE EQUIPMENT	1703	2500.00	
TOTAL			7500.00
DEPRECIATION BUILDINGS	1800	500.00	
TOTAL			500.00
GOODWILL	1900	1250.00	
DEVELOPMENT COST	1901	1250.00	
TOTAL			2500.00

TOTAL FIXED ASSETS 10500.00

TOTAL ASSETS 33435.47

LIABILITIES AND STOCKHOLDERS' EQUITY

ACCOUNTS PAYABLE TRADE	2000	1241.90	
TOTAL			1241.90
STATE SALES TAX	2202	124.30	
TOTAL			124.30

TOTAL CURRENT LIABILITIES 1366.20

STOCKHOLDERS' EQUITY
COMMON STOCK: \$100.00 PAR VALUE,
20000 SHARES AUTHORIZED, 0 OUTSTANDING

CAPITAL STOCK ISSUED	2800	30000.00	
TOTAL			30000.00
CURRENT EARNINGS		2069.27	

TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY 33435.47

SECTION V

INPUT FILES

This section describes how to create, build and purge any input file. Input files can have any name the customer desires as long as the name is less than six characters long. In this manual, the following file names are used to represent the files described.

<u>File Name</u>	<u>File Contents</u>	<u>Processing Program</u>
ININ	Customer invoicing data	AUTOB
INPUT	Changes to inventory	INVIN
INCUS	Customer payment data	CUSAC
INACT	Creditor invoicing data	PAYHN
PAYIT	Creditor payment data	PAYIN
EMPIN	Payroll processing data	PAYRL
DINPT	Journal transactions data	DISBR
DATAB	Changes to master customer file	CUSHN
DATAB	Changes to master creditor file	VENHN
DATAB	Changes to master employee file	EMPHN
DATAB	Changes to master ledger file	LEDHN

CREATING, BUILDING AND PURGING AN INPUT FILE

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	NAME THE INPUT FILE File names must be five characters or less.	DATAB INPUT
2	SET USER DISC EQUAL TO THE SYSTEM DISC Using the :UD directive, set the system disc to receive data in its user file area.	:UD,SYSTEM,0
3	STORE SOURCE DATA IN NAMED FILE Using the :STORE directive, specify which input device contains the source data file, and name the file.	:STORE,S,DATAB,5 :STORE,S,INPUT,1
4	INPUT FILE IS READ ONTO SYSTEM DISC When the input device named in Step 3 is a paper tape reader or a magnetic tape unit, the following message is typed when the end of source data is reached: DONE? Type YES if there is no more source data for the input file; type NO if there is more data to load. When YES is typed, the number of lines in the file is typed: nnnn LINES	YES NO

CREATING, BUILDING AND PURGING AN INPUT FILE (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Examples</u>
4 (cont)	When the input device named in Step 3 is a unit record device (card reader or system teleprinter), the last statement in the source data must be a double colon (::) to indicate the end of the file. When this statement is recognized, the following message is typed: <i>nnnn</i> LINES	1,21300 : : : 125,"95014" "END" ::
5	PRINT INPUT FILE FOR ERROR CHECK. Using the :LIST directive, have the system print the named input file just set up. The file can then be checked for any errors.	:LIST,S,6,DATAB
6	CORRECT ANY INPUT FILE ERRORS. Using the :EDIT directive, correct any errors found in the input file.	:EDIT,DATAB,1 (followed by EDIT operations)
7	IDENTIFY THE INPUT FILE TO THE SYSTEM PROGRAM When the file is ready to be processed, use the :JFILE directive to identify the disc input file to the program used to process the file. (This step is the first in program operating procedures.)	:JFILE,DATAB
8	EXECUTE THE PROGRAM	:PROG,LEDHN

CREATING, BUILDING AND PURGING AN INPUT FILE (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Examples</u>
9	PURGE USED INPUT FILE FROM SYSTEM AREA ON DISC. After an input file has been processed by the program, it should be purged from the disc to make room for other files and pro- cessing. Using the :PURGE directive, remove the input file from the disc.	:PURGE,DATAB

If a disc processing error or an input file error occurs, an error diagnostic message is printed on the system teleprinter. See Section VI for system error diagnostic messages.

SECTION VI

ERROR DIAGNOSTICS

Error diagnostics are routines that automatically check all system processing for three types of errors: disc processing errors, input format errors and system program errors. When an error is encountered, the diagnostic types an error message on the teleprinter to inform the operator. The operator then takes appropriate action to correct the error.

DISC PROCESSING ERRORS

Disc processing errors occur during the processing of disc files. The errors are diagnosed by error diagnostic routines in the extended file manager (EFMP) of the DOS-M operating system, and the appropriate messages are typed.

INPUT FORMAT ERRORS

Input format errors occur in input statements entered through any input file or device (such as the system teleprinter). The errors are diagnosed by an input formatting routine and the appropriate messages are typed.

SYSTEM PROGRAM ERRORS

These errors occur during processing of system programs. Each program uses system routines to diagnose errors in the structure and logic of the input data and program commands it processes. Appropriate diagnostic messages are typed. See each program for a list of program error diagnostics.

DISC PROCESSING DIAGNOSTIC MESSAGES

The following diagnostic messages could occur during disc file processing. The diagnostic messages are printed on the system teleprinter. See the *MOVING-HEAD DISC OPERATING SYSTEM* manual for a complete discussion of these error diagnostics.

EFMP ERROR (nn) IN DEFINING BUFFER AREAS

or

EFMP ERROR (nn) IN (action) FILE (name)

(nn) = an error code that defines the error condition. See the EFMP ERROR CODES table.

(action) = the process that resulted in the error. One of the following functions:

OPENING	CLOSING	CREATING
READING	WRITING	STATUS ON

(name) = the name of the disc file being accessed at the time of the error.

Note: A program suspension is made for errors that occur when OPENING or CLOSING a file to allow operator intervention. When the suspension occurs, type :GO to repeat the action, or type :OFF to terminate the program.

A program termination is made for all other errors.

EFMP ERROR CODES

The following codes define the error condition that resulted in the disc processing error diagnostic message.

Whenever one of these errors occurs, the program currently processing terminates; except for errors occurring during OPENING and CLOSING functions, when the program is suspended to allow the proper disc pack to be mounted.

<u>Error No.</u>	<u>Description</u>
Ø	No errors.
1	Invalid EFMP function number.
2	Duplicate File Name.
3	File Name not in directory.
4	File too long for this pack.
5	Invalid record length.
6	Pack number not available (or Name not in directory if a search was made on all available pack directories).
7	Invalid Security Code.
8	A Temporary File must be "OPENED" with a CREATE function. An OPEN function can only change the Temporary Record Buffer number of the starting record number for a Temporary File.
9	Buffer area specified in Exec call is not valid.
1Ø	Invalid Record Number.
11	File not open.
12	DEFINE not previously executed.
13	Backspaced beyond "start-of-file."
14	No pack space available.
15	Invalid pack number.
16	During a pack search, a pack was found where the entire space was not allocated to PNxxx.
17	Work area space not sufficient.

EFMP ERROR CODES (cont.)

<u>Error No.</u>	<u>Description</u>
18	No "Open" table space available.
19	Invalid Temporary Record Buffer Number.
20	Invalid number of Executive call parameters.
21	End-of-File.
22	COPY terminated.
23	Invalid argument(s).
24	Maximum number of files exceeded.
25	File already OPEN.
26	Record size larger than one-half of a TRB.

The error numbers are also returned in the A-Register.

INPUT FORMAT ERRORS

The following diagnostic messages could occur when input statements are being read through an input device. These messages are printed on the system teleprinter, followed by the input statement which contains the error.

ERROR IN NEXT LINE (input error message)
(line containing the input error)

The line containing the input statement begins with a four-digit sequence number, followed by up to 64 characters of the record. Sequence numbers are assigned to each input statement, beginning with 0001 and incrementing after each input record is processed, unless input was from the system teleprinter, in which case no sequence number is used.

INPUT ERROR MESSAGES

Message

INVALID NUMERIC CHARACTER
EMPTY NUMERIC FIELD
INVALID DECIMAL POINT
TOO MANY DIGITS AFTER DECIMAL POINT
MISSING QUOTE IN ALPHA STRING
NUMERIC VALUE EXCEEDS 11 DIGITS
ALPHA FIELD LENGTH EXCEEDED
MISSING PARAMETER

If a disc input file is being processed the following message may appear:

UNDEFINED DISC INPUT FILE: JOB ENDED

APPENDIX A

PRINTING RECORDS FROM FILES

The CONVR program is used to print selected records or record items from a master or interim file.

CONVR :PROG DIRECTIVE FORMATS

The :PROG directive is used to start the program. Operator responses to messages printed on the system teleprinter direct CONVR processing. The following chart shows CONVR functions and sample :PROG directive formats.

<u>CONVR FUNCTION</u>	<u>SAMPLE :PROG DIRECTIVE</u>
PRINT ALL RECORDS IN THE FILE; OR PRINT A SELECTED ITEM FROM ALL RECORDS	:PROG,CONVR,6
PRINT A RECORD AND ALL SUBSEQUENT RECORDS IN A FILE; OR PRINT A SEL- ECTED ITEM FROM ONE RECORD AND ALL SUBSEQUENT RECORDS IN A FILE	:PROG,CONVR,6,214
PRINT ONE RECORD IN A FILE; OR PRINT A SELECTED ITEM FROM ONE RECORD	:PROG, CONVR,6,214,214
PRINT A SELECTED GROUP OF RECORDS IN A FILE; OR PRINT A SELECTED ITEM FROM A GROUP OF FILE RECORDS	:PROG,CONVR,6,214,248

CONVR OPERATING PROCEDURES

<u>Step</u>	<u>Procedure</u>	<u>Examples</u>
1	START THE PROGRAM Using the :PROG directive format required, start CONVR. See "CONVR :PROG DIRECTIVE FORMATS" for the correct format to use.	:PROG,CONVR,6 :PROG,CONVR,6,214 :PROG,CONVR,6,214,214 :PROG,CONVR,6,214,248
2	ENTER NAME OF FILE TO BE PRINTED. After CONVR is started, it types the request: 'FILE NAME?' Type the required file name or type the "END" command to terminate the CONVR program.	'FILE NAME?' "MASCU"
3	DEFINE THE RECORD FIELD TO BE PRINTED. If a file name is entered in Step 2, the following request is typed: 'FIELD?' Type Ø if CONVR is to print either: - All records (using the :PROG,CONVR,n directive). - One complete record (using the :PROG,CONVR,n,nnn,nnn - A group of complete records (using the :PROG,CONVR n,nnn,mmm or :PROG,n,nnn Type a parameter number from the file's "ADD" Parameter Code table, to print that record item from choices listed above. After CONVR prints the desired records, it returns to Step 2.	'FIELD?' Ø 'FIELD?' 3

CONVR OPERATING PROCEDURES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Examples</u>
4	END THE CONVR PROGRAM. Type "END" to the CONVR request in Step 2. No special message is typed.	"FILE NAME?" "END"

NOTE: When the MASTE file, or any directory file is entered at Step 2, any entry can be typed at Step 3, as these files are always printed in their entirety.

If the Step 3 entry is not zero, the first field is printed, as well as the field requested for the record(s). This provides an identification key for the customer.

APPENDIX B

MAKING COPIES OF FILES

To make a copy of a system master or interim file, follow these UTIL program instructions. (See the *DOS-M* manual for additional UTIL functions.)

<u>Step</u>	<u>Procedure</u>	<u>Examples</u>
1	START THE UTIL PROGRAM Using the :PROG directive, start UTIL. Type :PROG,UTIL to get a list of the UTIL directives and their parameters typed or type :PROG,UTIL,1 to go immediately to Step 2.	:PROG,UTIL,1
2	ENTER THE UTIL COPY DIRECTIVE. When UTIL types the message: UTIL READY Type the UTIL copy directive, in this format: /COP, fname, packno fname = the name of the file to be copied. packno = the number of the disc pack to which the file is copied.	/COP,MASCU,123 /COP,TEMPL,123
3	UTIL COPIES THE NAMED FILE. When UTIL has copied the file, it returns to Step 2. Type any other UTIL directive (e.g., another copy directive) or type the /END directive to terminate the UTIL program	UTIL READY /END

APPENDIX C

CHANGING SIZES OF FILES

To change (or check) the size of a system master or interim file, follow these UTIL program instructions.

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
1	START THE UTIL PROGRAM. Using the :PROG directive, start UTIL. Type :PROG,UTIL to get a list of the UTIL directives and their parameters typed, or type :PROG,UTIL,1 to go immediately to Step 2.	:PROG,UTIL
2	ENTER THE UTIL BRIEF DIRECTIVE. When UTIL types the message: UTIL READY Type the UTIL brief directive, in this format: /BRI, fname, scode fname = the name of the file to be checked. scode = the security code for the file (if used). (See the DOS-M manual for security code data.)	/BRI,MASLE,0
3	UTIL TYPES STATUS REQUEST. UTIL calculates the amount of the file spaced used, and types the following: AVAILABLE REC. = <i>nn</i> RECORDS USED = <i>nn</i> NEW RECORD COUNT ?	

CHANGING SIZES OF FILES (cont.)

<u>Step</u>	<u>Procedure</u>	<u>Example</u>
3	To decrease the size of the file, type a new record count. To terminate the program, type /END.	/END

NOTE: A file must be opened before the size can be changed.

When the size of a master file is decreased, the size of its directory file must be decreased if the new record count for the master file is ≥ 42 records less than the original size of the file. Decrease the directory file one record for every 42 records of the master file decreased.

APPENDIX D

SUMMARY OF ERROR DIAGNOSTICS

This appendix is a summary of system program error diagnostic messages. The messages are listed in alphabetic order in the left column; the program(s) in which they occur in the right column.

<u>Error Diagnostic</u>	<u>Program(s)</u>
ACCOUNT NUMBER MISSING	LEDHN
ACCOUNT NUMBER nnnnnn NOT IN FILE MASLE	LEDHN
ACCT # IN TEMPL RECORD nnnnn NOT DEFINED IN DEPT. LEDGER	DISBR
ACCT # IN TEMPL RECORD nnnnn NOT DEFINED IN MASTER LEDGER	DISBR
AUTO HAS ALREADY BEEN EXECUTED	AUTST
CUSTOMER CODE ALREADY IN FILE	AUTOB
CUSTOMER CODE IS ALREADY ON FILE	CUSHN
CUSTOMER CODE IS MISSING	CUSHN
CUSTOMER CODE IS NOT ON FILE	CUSHN
CUSTOMER CODE MISSING	AUTOB
CUSTOMER CODE NOT IN FILE	AUTOB
CUSTOMER CODE NOT ON FILE	AUTST CUSAC
CUSTOMER FOR THE FOLLOWING TRANSACTION NOT ON FILE	STATM

<u>Error Diagnostic</u>	<u>Program(s)</u>
DEPT. CODE IN TEMPL RECORD nnnnn NOT DEFINED	DISBR
DIRØØ FULL - NO ACTION	SETP2
DUPLICATE DEPT. NO.	SETP2
DUPLICATE INVOICE FOR VENDOR	PAYHN
EMPLOYEE NO. xxxxxx NOT ADDED, DISC FILE FULL	EMPHN
EMPLOYEE NO. xxxxxx NOT ON DISC	EMPHN
ERROR IN NEXT LINE: CODE INVALID FOR SALARIED EMPLOYEE	PAYRL
ERROR IN NEXT LINE: CONFLICTING EMPLOYEE NUMBER	EMPHN
ERROR IN NEXT LINE: DUPLICATE EMPLOYEE NUMBER	EMPHN
ERROR IN NEXT LINE: EMPLOYEE IN WRONG SEQUENCE	PAYRL
ERROR IN NEXT LINE: EMPLOYEE xxxxxx NOT IN DIRECTORY	PAYRL
ERROR IN NEXT LINE: INVALID CODE COMBINATION	PAYRL
ERROR IN NEXT LINE: INVALID COMMAND	PAYRL REPT
ERROR IN NEXT LINE: INVALID OR MISSING CODE	PAYRL
ERROR IN NEXT LINE: INVALID PARAMETER	PAYRL
ERROR IN NEXT LINE: INVALID PARAMETER CODE	EMPHN SETP1
ERROR IN NEXT LINE: INVALID PARAMETER VALUE	EMPHN

<u>Error Diagnostic</u>	<u>Program(s)</u>
ERROR IN NEXT LINE: MISPLACED COMMAND	PAYRL
ERROR IN NEXT LINE: MISSING COMMAND	PAYRL
ERROR IN NEXT LINE: TOO MANY SEQUENCES	PAYRL
ERROR, EMPLOYEE #xxxxxx NET LESS THAN ZERO - NO ACTION	PAYRL
FILE ALREADY EXISTS	SETP2
FOLLOWING DESCRIPTION IS OUT OF ORDER	DISBR
ILLEGAL DEPARTMENT CODE	LEDGR DISBR BALAN LEDHN
ILLEGAL IDENTIFIER CODE IN FOLLOWING STATEMENT	DISBR
INVALID	PAYRL EMPHN SETP1 SETP2
INVALID COMMAND	AUTOB AUTST CUSAC CUSHN INVIN PAYHN EMPHN DISBR LEDHN VENHN
INVALID DATA CODE	PAYHN

<u>Error Diagnostic</u>	<u>Program(s)</u>
INVALID DATE	AUTOB STATM AUTST CUSAC CUSHN INVIN
INVALID FILE NAME	SETP2
INVALID PARAMETER	AUTOB CUSAC CUSHN INVIN PAYHN PAYIN VENHN LEDHN
INVALID PARAMETER CODE	AUTOB LEDHN CUSHN INVIN VENHN
INVALID PAYMENT CODE	PAYIN
INVALID QUANTITY	INVIN
LEDGER ACCOUNT NUMBER ALREADY IN FILE	LEDHN
LEDGER ACCOUNT NUMBER NOT IN FILE	LEDHN
LEDGER FILE FULL, ACCOUNT nnnnnn NOT ENTERED	LEDHN
LEDGR RUN TERMINATED, BALANCE FILE TEMPL	LEDGR
LEDGR RUN TERMINATED, NO. OF TEMPL ENTRIES TOO LARGE	LEDGR
LINE nnnnn REF# nnnnn IGNORED, EXCEEDS MAX	DISBR
LINE nnnnn REF# nnnnn NOT IN BALANCE BY \$nnn.nn	DISBR

<u>Error Diagnostic</u>	<u>Program(s)</u>
MASIN FILE FULL, MODEL nnnnnn NOT ENTERED	INVIN
MASCU FILE FULL, CUSTOMER nnnnnn NOT ENTERED	AUTOB
MASCU FILE IS FULL - CUSTOMER nnnnnn WAS NOT ENTERED	CUSHN
MISSING DESCRIPTION STATEMENT AFTER LINE nnnnn	DISBR
MODEL ALREADY IN INVENTORY	INVIN
MODEL NOT IN INVENTORY	AUTOB INVIN
MODEL NUMBER IS MISSING	INVIN
MODEL SHOWS A NEGATIVE QUANTITY IN INVENTORY AND SHOWS NO BACK ORDER	INVIN
NO CASH CUSTOMER CODE ON FILE - OPEN ONE WITH \$nnnnnnn.nn CURRENT AMOUNT DUE	AUTOB
NO END COMMAND	AUTOB CUSAC CUSHN INVIN
NO ITEMS TO UPDATE	INVIN
NO SUCH INVOICE	PAYHN PAYIN
STATM MUST BE RUN FIRST	AUTST
THIS QUANTITY WILL EXCEED LIMIT	INVIN
TOO MANY PARAMETERS	PAYHN PAYIN VENHN

Error Diagnostic

Program(s)

VENDOR ALREADY IN FILE

PAYHN
VENHN

VENDOR NOT IN FILE

PAYIN
VENHN

VENDOR NOT IN FILE MASCR

PAYHN



READER COMMENT SHEET
ACCOUNTING AND FINANCIAL INFORMATION SYSTEM
JOB CONTROL

5951-1350

April 1971

Hewlett-Packard welcomes your evaluation of this text.
Any errors, suggested additions, deletions, or general comments may be made below. Use extra pages if you like.

CUT ALONG LINE

FROM

PAGE__OF__

NAME: _____

ADDRESS: _____

NO POSTAGE NECESSARY IF MAILED IN U.S.A.

FOLD ON DOTTED LINES AS SHOWN ON OTHER SIDE AND TAPE

FOLD

FOLD

BUSINESS REPLY MAIL

No Postage Necessary if Mailed in the United States Postage will be paid by

MANAGER, SOFTWARE PUBLICATIONS

HEWLETT - PACKARD

CUPERTINO DIVISION

11000 Wolfe Road
Cupertino, California
95014

FIRST CLASS
PERMIT NO.141
CUPERTINO
CALIFORNIA



FOLD

FOLD

